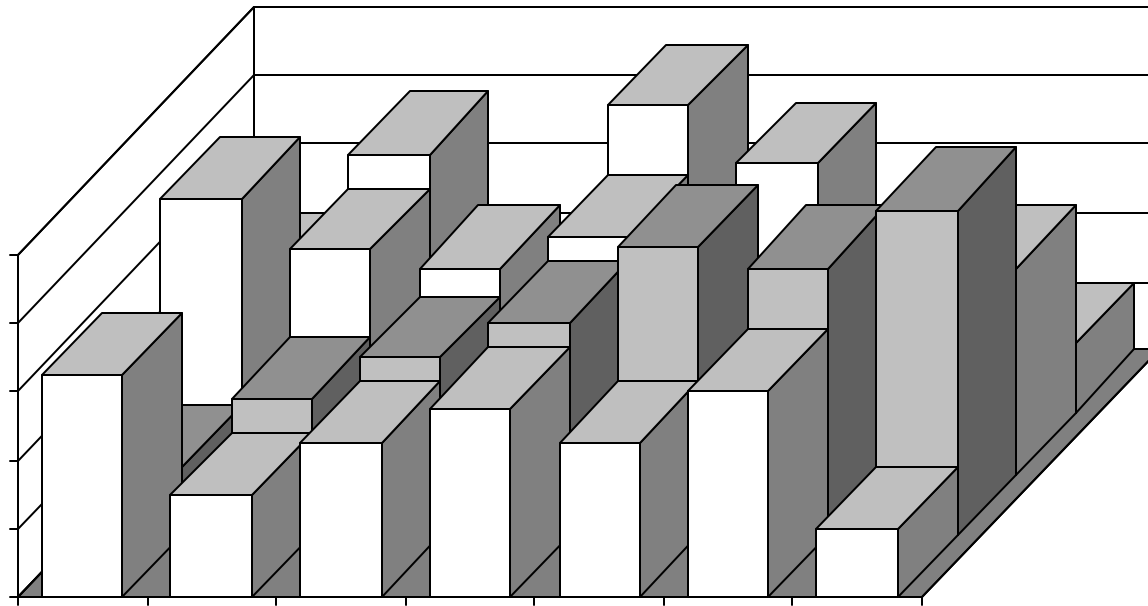


UTAH JOB OUTLOOK

STATEWIDE AND SERVICE DELIVERY AREAS

2000-2005



Utah Department of Workforce Services

Workforce Information



Current through February, 2002

UTAH JOB OUTLOOK

STATEWIDE AND SERVICE DELIVERY AREAS 2000 - 2005

Utah Department of Workforce Services

Workforce Information

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I. HIGHLIGHTS

INDUSTRY DIVISIONS

Goods-Producing

Mining

Construction

Manufacturing

Service-Producing

T.C.U.¹

Trade

F.I.R.E.²

Services

Federal Government

State Government

Local Government

Agriculture

Self-Employed

¹ Transportation/Communications/Utilities

² Finance/Insurance/Real Estate

OCCUPATIONAL CATEGORIES

Managerial & Administrative

Professional & Paraprofessional

Technical

Sales & Related

Clerical & Administrative Support

Service

Agriculture, Forestry, & Fishing

Production, Operating, & Maintenance

I. HIGHLIGHTS

Between the years 2000 and 2005, the Utah economy will generate over 154,500 new jobs. Total employment will increase from 1,353,800 in 2000 to about 1,508,310 in 2005. Overall, employment in the State will increase by 11 percent, with a growth rate averaging 2.3 percent per year. This is a slight slowing of the rate of job growth from the last set of projections (1998 - 2003), which estimated a rate of 2.5 percent per year. Still, a 2.3 percent per year rate of growth is a full percentage point above the 1.3 percent rate projected for the nation as a whole.

Industry Outlook

All of the new jobs and 80 percent of total employment during the five-year period will be in the service-producing sectors of: transportation, communication and utilities; trade, finance, insurance and real estate; services; and government. Mining, construction, and manufacturing — the goods-producing industries — will actually show a decline in total jobs of about 5 percent over the 2000-to-2005 period. Under 20 percent of all employment will be in the goods-producing sectors. The annual employment growth rate for service-producing industries is 2.7 percent as compared with a 0.9 percent decline for goods-producing industries.

Nine of the 12 major industry divisions will experience growth rates below the State average of 2.3 percent per year. These include: mining; construction; manufacturing; transportation, communication, and utilities; trade; finance; federal government; state government; and agriculture. Services, local government, and self-employed will all enjoy employment growth rates exceeding the State average.

In terms of specific industries, the fastest growing will be business services, agricultural services, health services, and miscellaneous repair services. Those industries providing the most new jobs in the State will be: business services, health services, local government, and eating and drinking places. Nearly half of 154,500 new jobs in Utah will occur in the services industry sector, and 30 percent of these 74,800 will be in the business services industry alone.

All three construction sectors are projected to lose employment over the five year period. Mining (oil and gas) and agriculture will also feel a decline in jobs.

Occupational Outlook

Of the eight major occupational categories used to present summary information on jobs in Utah, by far the largest—both in number of jobs and number of different job titles—is the production, operating, and maintenance category. Over one-fourth—347,450—of total 1,353,800 jobs in 2000 are included in this group. During the five-year projection period, 16,010 new employment positions will swell the ranks of this category. These new jobs represent a growth rate of 0.9 percent per year, which is much less than one-half of the 2.3 percent growth rate for all occupations. After the production-related occupations, the professional group claims the next largest portion of total employment in the State with a 2000 employment count of 239,320 and an annual growth rate of 3.5 percent. The clerical and administrative support occupations account for slightly less employment than the professional occupations, with about 203,100 jobs. Clerical occupations will add 17,620 new positions to reach the 220,720 level by 2005.

Service occupation jobs, numbering 174,480, will increase at an above-average rate of 2.9 percent per year to total 199,430 by the year 2005. Higher-than-average rates of growth are anticipated in both the sales and service categories. Sales occupations will realize a 3.0 percent per year rate of employment growth. This means over 29,680 new jobs in sales, increasing employment from 198,960 in 2000 to 228,640 in 2005. Increases in the sales and service job categories are in response to the increase in demand for goods and services from the trade and services industry categories.

The technical occupational category will increase its ranks with the fastest rate of job growth, 3.6 percent, of any of the eight job categories. Although small in terms of total jobs, technical jobs will experience 9,310 new positions over the five-year period. Employment in technical occupations is estimated at 51,230 in 2000 and projected to reach the 60,540 by 2005.

Management and administrative occupations account for a small 7.3 percent portion of total employment in Utah. Roughly 98,940 persons are employed in this category. By 2005, some 12,140 new positions are projected to develop, raising the level of employment to 111,080. This category will enjoy a higher-than-average rate of job growth, 2.5 percent, over the period.

Employment in agricultural occupations will continue to claim the smallest number of jobs—40,320. Job increases will occur in the agricultural category, but will be for satisfying the demand for workers in the growing lawn and garden services activities. About 3,320 new jobs will be added in agricultural occupations in Utah over the 2000-to-2005 period, a growth rate a full point below the State average of 2.3 percent.

The Utah Job Market Will Generate Nearly 64,000 Job Openings Per Year

Each year of the five-year projection period will yield an average of 63,850 job openings. A little less than one-half of these—30,890—will originate from growth in the economy. About 32,960 openings will occur when workers leave one occupation and move to another, or leave the labor force. In occupational terms, the professional-related jobs will account for 20 percent of the total job openings, or 12,570. Sales occupations will add 12,070 openings (19 percent) with the production, operating and maintenance, and service categories each accounting for over 11,000 annual job vacancies or 17 percent of the total. Clerical occupations will contribute about 7,750 job openings. Managerial will add about 3,970 openings with the technical category contributing about 3,000. Agriculture will add another 1,920 per year.

Education/Training and Experience Requirements of Utah Jobs

By the year 2005, about 22 percent of all jobs in the State will require at least a bachelor's degree, based on a method of assigning training levels to occupations derived from the Bureau of Labor Statistics. This education, training, and experience classification system, when linked with the occupational employment projections for Utah, results in the following percentages of Utah jobs and education, training, and experience requirements: associate degree — 4 percent; postsecondary vocational training — 4 percent; work related experience — 9 percent; long term (one year or more) on-the-job training — 8 percent; moderate term (one month to one year) on-the-job training — 16 percent; and short term (less than one month) informal on-the-job training — 37 percent.

Most of Utah's Job Market Activity will Happen Along the Wasatch Front

The 100-mile strip from Weber County in the north through Utah County to the south encompasses 82 percent of all jobs in 2000 and 2005, and 79 percent of all new jobs over the five-year period. The average annual growth rate for the "Corridor" is 2.2 percent per year, which is slightly less than the 2.3 percent State average.

Of the job growth rates in the nine Service Delivery Areas (SDA's) in Utah, only three areas will exceed the State average rate of 2.3 percent per year. They are Southwest (4.0 percent), Mountainland (2.6 percent), and Bear River (2.4). Forty-three percent, or 66,860, of the projected 154,510 new jobs will originate in Salt Lake and Tooele counties (the Wasatch Front South SDA). Mountainland (Summit, Utah, and Wasatch Counties) will enjoy a net increase of about 28,110 jobs over the five year period.

The Five County Southwest Service Delivery Area again claims the highest rate of employment growth of any SDA, with a huge 4.0 percent per year pace, nearly double the State average. Over the 2000-to-2005 period, this district will increase its job count from 75,640 to 90,850, or a net impact of 15,210 new jobs. The Weber-Morgan and Davis County areas will each grow at the same pace as the state (with 2.3 percent annual rates). The Wasatch Front South SDA and the Central SDA (Juab, Millard, Piute, Sanpete, Sevier, and Wayne counties) will both produce rates of employment growth between 2.0 and 2.2 percent per year respectively.

The Southeast (Carbon, Emery, Grand, and San Juan counties) and the Uintah Basin (Daggett, Duchesne, and Uintah counties) SDAs will experience annual growth rates of 1.9, and 1.5 percent respectively over the 2000-to-2005 projection period.

II. INTRODUCTION

II. INTRODUCTION

The **Utah Job Outlook** presents the official State of Utah projections of industry and occupational employment. It discusses the Utah employment outlook from 2000 to the year 2005 by industry, occupation, and geographic area. Industry employment projections originate from the Governor's Office of Planning and Budget's Utah Process Economic and Demographic Impact Simulation Model (UPED). These industry employment projections serve as the input, for the Utah Department of Workforce Service's occupational employment projections system. This edition of the **Outlook** is abbreviated so as to quickly provide detailed occupational employment and outlook data. This edition provides a statewide analysis, with industry and occupational summaries; along with Table 3, the detailed occupational demand information. For the nine sub-state service delivery areas, only the summary industry, occupation, and detailed demand tables are provided. This publication actually provides ten sets of projections, one for the State as a whole, and one for each of Utah's nine Service Delivery Areas (SDAs).

The **Utah Job Outlook's** purpose is to provide labor market information, in the form of labor demand, training requirements, and wage information for use by planners and administrators in the job training and educational community. Information in the **Outlook** is used as a tool in the process of identifying and planning training programs for "market driven" occupations in demand. This publication was designed specifically to aid the Department of Workforce Services and the Office of Education in the preparation to train individuals for "occupations in demand" in the Utah labor market. The report has many other uses, particularly for those individuals and organizations

interested in economic development efforts, job counseling, job search, career information, and others.

The **Utah Job Outlook** is a comprehensive product. It is organized into four sections. Section I provides "Highlights" that present the status and direction of employment by industry and occupation in Utah; Section II defines the purpose, identifies the audience, and covers the basic structure and housekeeping items; Section III discusses the Statewide job outlook, then employment composition and trends in the Service Delivery Areas, and finally general training levels of jobs in Utah. Section IV contains the data "heart" for studying and analyzing Utah jobs, namely the Labor Demand tables. (These tables are described in detail in the "Description of the Labor Demand Tables" that precede Table 3).

Section IV steps from the Statewide perspective to address each of the nine sub-state Service Delivery Areas (SDAs). For the reader's convenience, information for each SDA is contained in each area's section. Refer to the Table of Contents to locate the page number of the SDA of interest.

As in previous editions, the Appendix contains valuable ancillary information including: a map of Utah showing the nine Service Delivery Areas (Appendix A); Utah Employment Projections by Industry Sector and Service Delivery Area (Appendix B); and two sections describing the methodologies used in preparing the occupational (Appendix C) and industry projections (Appendix D).

Estimates of employment and annual average job openings are produced for roughly 700 occupations. The Outlook presents only the most significant of these occupations. This "significant" criterion for publishing occupational data is the estimate of total annual average job openings; the "demand" for the occupation. For an occupation to appear in the Labor Demand table(s), it must have an estimated 10 annual openings. The only exception is in the Wasatch Front South SDA where, because of its size, only occupations with at least 25 annual average job openings are published. At the Statewide level, the publication cut-off is 50 annual average job openings. About 210 occupations are shown in the Statewide table. The occupations that appear in the tables are considered "occupations in demand." These are the occupations that are used in determining the Composite Job Prospect Grade assigned to each occupation in the Labor Demand table. The Labor Demand tables show the Occupational Employment Statistics (OES) code for use in identifying occupational demand information in the Choices career information delivery system, in use in many schools and Utah Department of Workforce Services' employment centers.

The Composite Job Prospect Grade feature, the last column on the table, assigns a letter grade to each occupation in the Labor Demand tables. The grade reflects a composite "labor demand" ranking or index of occupations within the service delivery (geographic) area. The grade makes easier the analysis of

occupations within an SDA. It is based on four factors that affect the demand for an occupation: current level of employment, the

number of projected new jobs, the job growth rate for the occupation, and the number of estimated annual average replacement job openings (resulting from the net movement of workers from one occupation to another separate occupation and for workers leaving the labor force).

The **Composite Job Prospect Grade** is assigned to just those occupations that meet the publication criteria for the **Outlook**. These occupations are ranked independently on each of the four "demand" factors. From this ranking, a summary grade of A, B, or C is assigned to the occupation. Because the occupations in the publication are considered "occupations in demand," there are no Composite Job Prospect Grades of less than a C.

In summary, the **Utah Job Outlook** represents the continuing effort of Workforce Services in providing up-to-date, comprehensive, and reliable labor market information. It is designed specifically to help employment and training- program planners develop curriculum addressing "occupations in demand." Comments or observations concerning the **Outlook** are solicited.

III. JOB OUTLOOK - STATEWIDE

III. UTAH JOB OUTLOOK - STATEWIDE

Overview

Between 2000 and 2005, over 154,500 new jobs will boost total employment in Utah from 1,353,800 in 2000 to 1,508,310 by 2005. The annual rate of growth over the five-year period will average 2.3 percent, or nearly 31,000 new jobs per year. A 2.3 percent per year rate of employment growth in Utah is twice the projected 1.4 percent rate expected for the nation as a whole.

Each year during the five-year projections period an average of 63,850 job openings will occur. Roughly 52 percent of these openings will result from replacement demand, the need to fill vacancies from workers moving from one occupation to another or leaving the labor force. Growth, new jobs, in the economy will account for the remaining 48 percent.

Utah's "Top 50 Occupations in Demand" will account for about 43 percent of all employment, 57 percent of all new jobs, and 51 percent of job openings over the five-year period.

From the perspective of the education, training, and experience requirements of jobs in Utah in the year 2005, about 22 percent of all jobs in the State will require at least a bachelor's degree, based on a method of assigning training levels to occupations derived by the Bureau of Labor Statistics. This education, training, and experience classification system, when linked with the occupational employment projections for Utah, results in the following percentages of Utah jobs and education, training, and experience requirements: associate degree — 4 percent; postsecondary vocational training — 4 percent; work related

experience — 9 percent; long term (one year or more) on-the-job training — 8 percent; moderate term (one month to one year) on-the-job training — 16 percent; and short term (less than one month) informal on-the-job training — 37 percent.

The following Statewide section addresses the **Utah Job Outlook** under seven topics: Industry Composition and Trends; Occupational Composition and Trends; the Top 50 Occupations in Demand in Utah; Top 50 Fastest-Growing Occupations; Top 50 Occupations with the Most New Jobs; Education, Training, and Experience Requirements of Utah Jobs; and a summary comparing the outlook in the nine Service Delivery Areas (SDAs). To begin, we must first look at industries; where people work — the source of employment.

Industry Composition and Trends

Industries, or "Where People Work," determine the levels of demand (number of workers) and the skills needed (occupations) in the economy. Industries provide a wide variety of goods and services demanded by customers in the economy. What a company produces defines what kind of occupations (skills) are needed. Literally hundreds of different industries and over 60,000 work sites are actively "doing business" in Utah. Employers are classified by what product or good is produced or what service is provided. Goods-producing industries are defined as mining, construction, and manufacturing. Service-producing industries include transportation, communication, and utilities; trade (wholesale and retail); finance, insurance and real estate; services; and government (federal, state, and local).

These sectors—manufacturing, trade, services, etc.—will be used to discuss the outlook by industry. Chart 1 provides a visual picture of employment in the 12 major industry sectors, ranked from the largest sector—services—to the smallest, mining. Table 1 shows the numbers presented in Chart 1. Chart 2 graphically depicts new jobs by major industry in Utah for the 2000-to-2005 period. The charts and tables immediately follow the narrative.

Services Industry Division

(Refer to Charts 1 and 2, and Table 1)

The Services industry is by far the largest, in terms of the number of jobs and the number of establishments, of the 12 industry groups in Utah's economy. It accounts for nearly 30 percent of all employment in Utah, claiming 394,320 in 2000 and is expected to grow by 74,800 to reach the 469,120 level by 2005. The Services division's share of total jobs will increase from 29 percent in 2000 to 31 percent in 2005. Services employment will grow at a rate of 3.8 percent per year, well over the 2.3 percent average for all industries. Forty-eight percent of all 154,510 new jobs in the State will occur in the establishments of "services" industry employers. Note: The services industry includes employment in public and private educational services (including local school districts and State institutions of higher education). Local school districts and State colleges and universities account for 15 percent and eight percent, respectively, of total employment in the services division.

The "services" industry division contains many diverse activities. Some of these are hotels and motels; personal services (laundries, beauty shops, shoe repair shops); business services (advertising, building maintenance, computer and data processing services, and security services); auto and other repair shops; theaters; video rental stores; health services

(hospitals, clinics, and offices of doctors and dentists); legal services; educational services (public and private); social services (child care and home care); membership organizations (civic, fraternal, and religious organizations); management, engineering, architectural, and accounting services; and agricultural services. This last industry group has been the savior in agricultural-related employment because the great increase in the demand, in the metro areas of the State, for lawn and gardening services, the largest portion of the agricultural services group. Veterinary services are also included in this category.

The services division has often been labeled as a low-pay, low-skill industry. This is far from the case, as evidenced by the above description of the types of business activities it comprises. Much of the employment in services is in higher paying professional and technical occupations.

There are, undoubtedly, some industries which could be considered "low-wage," namely hotels/motels and some activities in personal services. However, most of the employment in services is not in low-pay/low-skill occupations. That description is more appropriate for the large retail trade industry.

Self-Employed Industry Sector

The estimate of the number of individuals who are self-employed in Utah is 258,870 for 2000, or 19.1 percent of total employment. This group will grow by 44,600 by 2005 yielding a much higher-than-average 3.4 percent annual rate of growth and total count of 303,470 by 2005. The self-employed sector will actually expand its share of total jobs, from 19.1 percent to 20.1 percent through the year 2005.

Self-employed individuals work in various endeavors, but they work for themselves or as a contractor for other organizations. Examples of the kinds of activities are the skilled trades (carpenters, plumbers, etc.), single proprietors, self-employed professionals (doctors, dentists, sales representatives), and contract workers.

Trade (Wholesale and Retail) Industry Division

The 16,600 companies in the trade (wholesale and retail) division, and new ones coming in, will add about 19,550 new jobs by 2005. Employment will increase from 253,490 to 273,040, an annual rate of growth of 1.5 percent. Growing at a slower-than-average pace of 1.5 percent per year, trade will lose some of its share of total employment, dropping to about 18 percent by 2005. Retail trade makes up 80 percent of total trade employment.

The trade division includes businesses involved in retail or wholesale distribution of goods. Examples of specific trade industries are the sale of hardware, lumber, cars and trucks, gasoline, furniture, electronics, pharmaceuticals, clothing, and general merchandising (department stores). Last, but not least, is the eating and drinking (restaurant) industry. It is tied for the second single-largest private industry in Utah, employing over 65,000 workers. The health care industry has about 69,000; the largest group being the business services industry with approximately 80,400 employed.

Manufacturing Industry Division

Manufacturing is the fourth largest provider of jobs in Utah. Employment is projected to grow at a slower-than-average pace during the 2000-to-2005 period. Just under 4 percent of all new jobs in Utah will occur in the roughly 3,200 manufacturing companies.

A growth rate of 0.8 percent per year will add 5,600 new jobs, lifting employment from 133,980 to 139,590 on the payrolls of manufacturing establishments. Much of the manufacturing growth will come in miscellaneous manufacturing, printing and publishing, food processing, and transportation equipment manufacturing.

Construction Industry Division

Construction, the fifth largest industry, will actually experience a loss of over 11,000 positions over the five-year period, a drop of 3.0 percent. This decline will occur as the industry cools down from its previous period of high employment growth rates. Employment, still high at 73,030 in 2000, starts to decline slightly as current long-term-demand projects wind down. Construction employment in 2000 is estimated at 73,030 and is projected to drop to the 61,940 level by 2005. About 9,500 companies, most of which are small, are active in the construction industry sector.

The construction division consists of three components: general building contractors, heavy construction (highway and commercial/industrial), and special trades contractors. General building construction will decrease from 17,910 to 15,560, heavy will experience an decrease from 8,540 to 7,310 over the 2000-to-2005 period, a net change of about 1,220. Special trades contracting will decline from 46,590 in 2000 to 39,060 by 2005.

Transportation, Communication, and Public Utilities Industry Division

Nearly 6,120 new jobs will be added to this industry division between 2000 and 2005. Employment will increase from the 2000 level of 60,600 to 66,720 by 2005 yielding an average annual growth rate of 2.0 percent. About 2,450 businesses are active in this sector. It contains the large employers known as public utilities that provide electric, gas, and communication services. An important sub-industry in this sector is the transportation and travel group (travel agents, airline reservation and airlines). Other industries include railroads, trucking, warehousing, and radio and television stations.

Finance, Insurance, and Real Estate Industry Division

This division is projected to grow at a slightly slower-than-average pace of 1.7 percent per year. Total employment will increase by some 5,110 jobs, from 58,490 in 2000 to 63,600 in 2005. Employment in this industry is concentrated in the Salt Lake area (Wasatch Front South Service Delivery Area) where about 70 percent of total sector employment is located. Over

5,980 companies are in business in this industry group. Banks and credit unions account for one-half of all employment and new growth. Other activities include stock exchanges, insurance, real estate, and holding and investment services.

Local Government Industry Division (excluding public education)

Local government in Utah is projected to grow at a rate of 2.9 percent per year, higher than the State average of 2.3 percent. Local government employment of 35,020 in 2000 will increase by 5,130 to the 40,150 level by the year 2005. These estimates do not include public education (local school district employment which totals 58,300 in 2000). School employment is reported in the educational services portion of the services sector. Examples of local government activity include the administration of local county, city, and other local jurisdictions responsible for water, police and fire protection, social services, health, and other roles. Roughly 2,440 entities are active in local government functions.

Federal Government Industry Division

Federal government employment is projected to show an increase in the 2000-to-2005 period. Total federal government employment is estimated at 30,560 in 2000 with an expected increase of 1,690 to reach the 32,250 level by 2005. About 440 federal offices or installations are located in Utah. The assumption surrounding federal government employment includes increases at Hill Air Force Base.

The federal government, although accounting for only about 2.3 percent of all Utah jobs, is a significant employer, particularly in Davis County where thousands of civilian and military employees at Hill Air Force Base, one of the largest employers in Utah, work. The federal government is a very important employer in many of the non-metropolitan areas of Utah, providing a stabilizing force to local economies. Other large federal installations around the State include the Internal Revenue Service Regional Center (Ogden), Tooele Army Depot, and Dugway Proving Grounds (Tooele County).

State Government Industry Division (excluding public education)

State government, the smallest of the three government sectors, is expected to experience a growth rate of 2.0 percent per year over the 2000-to-2005 period. Some 2,270 new jobs will be created lifting employment from 22,230 in 2000 to 24,500 by the end of the five year period. These data represent the administration of State business and do not include employment in State colleges and universities, which is included in the educational-services portion of the services- industry sector. State colleges and universities employ about 31,000 workers. Activities under State government include business regulation, taxation, transportation, social services, employment services, corrections, legislation, data processing, and others. About 500 State organizations and offices are in Utah.

Agriculture Industry Division

Agriculture, including general farming and ranching, will not grow over the 2000-to-2005 period for the State as a whole. Only in

the Southwest SDA will agricultural employment increase measurably. The increase is a result of the Circle K hog farm operation. Total agricultural employment will stay steady at 25,500, only agricultural services, primarily lawn servicing companies, will cause the total agricultural employment to reach about 26,500 in 2005.

Mining Industry Sector

Of the dozen major industry sectors, mining employs the fewest workers (and incidentally, enjoys the highest average industry wage). Employment in 2000 is estimated at 7,710. The projected 2005 employment level is 7,470, a decrease of 240 jobs, and an annual decline of -0.2 percent. Only about 340 firms are active in all types of mining in the Beehive State.

Industry Summary

Nearly 50 percent of all employment in Utah is concentrated in just two of the twelve industry sectors — trade and service. Both of these industries fall in the "service-producing" major group. Over 60 percent of all new job creation will be in trade and services divisions. Trade will grow at less than the state average of 2.3 percent. On the other hand, services will grow at well above the average rate with a 3.8 percent annual pace over the 2000-to-2005 period. Other industry sectors projected to have faster-than-average rates of job growth are local government and the self-employed group.

In terms of the detailed industries that comprise the major industry sectors, the following tables present the top ten "fastest growing" industries, and the top 10 industries with the most new jobs through the year 2005.

Occupational Composition and Trends

The demand for goods and services determine the occupational composition and level of employment in Utah. This demand is translated into jobs as businesses react to satisfy the demand. In Utah, employers at 60,000 worksites conduct business in literally hundreds of different kinds of industries producing a myriad of different products and services. The production of these products and services require labor forces with different occupational "mixes." Industry, reacting to "market forces," decides what occupations and how many workers in each occupation will be needed to produce the goods and services for the market place. This "market driven" demand is reflected in the occupational composition of Utah jobs.

Technology has had significant impact in Utah's mining and manufacturing industries, allowing business to produce more with fewer workers, thus reducing costs. These advancements obviously impact the types and numbers of workers. A good example of technology impacting the market is in the office, where fewer clerical workers are needed because of the influx of personal computer technology. This impact in office technology is evidenced by a slowly-declining employment share in the clerical occupational category as managerial, professional, and technical workers complete their work using improved personal computer hardware and software. Note that the count of clerical employment is not declining; it is actually increasing, but at a slower rate than other occupational categories.

Structural changes in the economy impact the mix of occupations. A prime example is the continuing shift of employment from goods-producing industries to service-producing

TOP TEN FASTEST GROWING INDUSTRIES IN UTAH 2000 - 2005

<u>Industry</u>	<u>Annual Rate</u>
Miscellaneous Business Services	5.4
Agricultural Services (Landscaping/Lawn Care)	4.7
Health Services	4.6
Miscellaneous Repair Services	4.4
Membership Organizations (non-profit)	4.4
Miscellaneous Professional Services	4.4
Engineering, Accounting, & Bookkeeping Services	4.4
Amusement & Recreation Services	4.1
Hotels & Lodging	4.0
Auto Repair Services	3.8

Source: Utah Department of Workforce Services,
Workforce Information, January 2001.

TOP TEN INDUSTRIES IN UTAH WITH THE MOST NEW JOBS 2000 - 2005

<u>Industry Sector</u>	<u>New Jobs 2000-2005</u>
Miscellaneous Business Services	21,560
Health Services	16,050
Local Public Education	5,900
Engineer, Bookkeeping, & Accounting Services	5,350
Local Government (excl education)	5,260
Eating & Drinking Places	4,880
Amusement & Recreation Services	4,510
Hotels & Lodging	3,680
State Public Education (Colleges & Universities)	3,660
Wholesale Trade	3,550

Source: Utah Department of Workforce Services,
Workforce Information, January 2001.

industries, as evidenced by the increases in sales and service-related occupations. Changes affecting occupations do not happen in isolation. For example, this shift of employment is in part due to technological change resulting in productivity enhancement. Goods-producing industries, particularly in manufacturing, are more capital intensive — using more machinery than workers to produce output — than service-producing industries, which are "labor intensive," requiring more workers relative to machinery. Yet another trend that has been impacting the managerial occupations is the reduction of many middle-management positions, as firms are "right-sizing" their workforce and as management philosophy is changing with line employees having an input into the management process.

The level of demand for an occupation is reflected not by just the growth in the occupation, but by the number of job openings. Job openings occur for two reasons: growth in the demand for the occupation, and the need to replace current workers who change occupations or leave the labor force. In a faster-growing economy, the level of openings due to growth is typically higher than openings resulting from replacement demand. The opposite case is also true, e.g. that in a slower-growing economy more replacement job openings will occur than growth openings. This situation is apparent in the 2000-to-2005 projections. Of the total 63,850 job openings expected to occur annually over the 2000-to-2005 period, about 30,890 (48 percent) result from growth in employment and 32,960 (52 percent) result from the need to replace workers changing occupations or leaving the labor force.

The occupational outlook is discussed for eight job categories. It addresses the current and projected employment and new jobs for the occupational categories. Also included are the number of "job openings" expected to occur and examples of specific job titles within the category. Please refer to [Chart 3](#) for an

illustration of the level of employment for each occupational category for 2000 and 2005. [Chart 4](#) presents the annual number of job openings by occupational category, and the growth and replacement components that comprise total openings. [Table 2](#) provides an occupational category summary data table.

Production, Operating, and Maintenance Occupations (Refer to Table 2, Chart 3, and Chart 4.)

Twenty-six percent of Utah workers are employed in a production, operating, or maintenance occupation. This category accounts for 347,450 jobs in 2000. By 2005, about 16,000 new jobs will be created, resulting in total employment of 363,460. Production, operating, and maintenance job openings over the period will number 11,350 per year, or 18 percent of the total for all occupations. Of the 11,350 openings, 8,150 will occur to replace workers and 3,200 will occur from growth in the occupations. Overall, occupations in this category are slightly losing employment share in the market, from 25.7 percent of the total in 1998 to 24.1 percent in 2005.

Production, operating, and maintenance jobs are more commonly found in the goods-producing industries (mining, construction, and manufacturing), although some job titles are common across all industries. Examples of job titles in this category are skilled trades occupations (electricians, carpenter, plumbers, etc.), assemblers, machinists, machine operators, drivers, equipment operators, auto mechanics, equipment cleaners, and a wide variety of unskilled and semi-skilled laborers and helpers.

Professional Occupations

The second largest job category is professional. Employment in this group is projected to grow from 239,320 in 2000 to

280,800 by 2005. The resulting 3.5 percent growth per year is substantially higher than the average of 2.3 percent for all occupations. This growth rate of 3.5 percent per year equates to an increase of 41,480 new jobs. Job openings numbering 12,570, or 20 percent of the total 63,850, will occur each year over the period. Of the 12,570 total openings, 4,280 will be generated to replace current professional workers moving from one occupation to another or leaving the labor force. Another 8,290 annual openings will result from growth in the job market. Employment in professional occupations will increase its employment share over the 2000-to-2005 period.

Specific professional job titles with significant employment levels include accountants, teachers, engineers, physicians, lawyers, personnel specialists, social workers, designers, nurses, writers, and computer systems analysts.

Clerical Occupations

Clerical occupations occupy the number three slot in total jobs. Fifteen percent of all Utah workers are employed in clerical or administrative support occupations. In terms of jobs, this amounts to 203,100 employment positions in 2000. Clerical occupations will grow by 1.7 percent per year adding 17,620 new jobs, for total employment of 220,720 in 2005. Although clerical jobs account for 15 percent of employment, they will claim only 11.4 percent of all new jobs by the year 2005. Over the five-year period, 7,750 job openings for clerical workers will occur annually, of which 3,200 will be for new positions and nearly 4,320 for replacing people changing occupations or leaving the work force. Jobs in the clerical and administrative support roles will experience only a small, one-half-of-one-percent decline in their share of total jobs over the projections period, reflecting basically the effect of technology on the office.

Examples of clerical job titles are secretaries, accounting clerks, general office clerks, typists, loan and credit clerks, tellers, and receptionists. Also included are reservation ticket agents, stock clerks, expediting clerks, and occupations involved with "incoming telemarketing" such as order clerks.

Service Occupations

Employment in service occupations will grow at a faster-than-average pace over the 2000-to-2005 period. The service annual growth rate is 2.9 percent, compared with the overall average of 2.3 percent per year. This group will add 24,950 new jobs to Utah payrolls. Employment in the service category will increase from 174,480 to 199,430 by 2005. Because of its higher-than-average growth rate, the service category will increase its share of the total employment from 12.9 percent to 13.2 percent over the five-year period. Annual job openings of 11,220 will occur, of which growth openings will number 4,990, with replacement openings of 6,230.

"Service" occupations are often confused with "services" industries. Although workers in service occupations can be found in virtually all industries, they are, however, concentrated in the trade and services industry sectors. For example, the largest job group within the service occupational category is food service occupations. Most workers in food service occupations are not employed in the "services" industry sector. They are employed in restaurants in the trade industry. On the other hand, the "service" occupation of housekeeper is employed in the hotel/motel industry, which is in the services industry sector. Other service occupations, like firefighters and police officers, are employed in the "government" industry sector.

Examples of large service occupations include food service (cooks, fast food workers, waiters/waitresses), cleaners (industrial, commercial, janitors), child care attendants, and security guards.

Sales Occupations

Workers in sales occupations will number 198,960 in 2000. This group accounts for about 15 percent of total employment and is projected to grow by 12,070 by the year 2005, or a 3.0 percent annual growth rate, reaching a level of 228,640 by the end of the five-year period. About 19 percent of all job openings will occur for sales-related occupations, a total of 12,070 openings. Of these, just 5,940 will be for growth needs and 6,130 for replacing workers changing occupations. The sales occupational category will slightly increase its share of total employment—from 14.7 percent to 15.2 percent—by 2005.

Examples of occupations under the sales category include sales representatives (technical and retail), sales clerks (the largest single occupation in Utah — 40,000 workers), sales agents (insurance and real estate), cashiers, and telemarketers.

Managerial and Administrative Occupations

Managerial and administrative support occupations account for about 7 percent of total employment in Utah. Over the 2000-to-2005 period, employment is projected to increase by 12,140 from 98,940 to 111,080. Manager and administrator occupations will grow at a faster-than-average pace of 2.5 percent per year. Each year, an average of about 3,970 job openings will occur, 2,430 resulting from growth and 1,540 to replace managers who change occupations or retire. Managerial and administrative occupations will maintain their share of total employment over the period.

Examples of specific occupations with large numbers employed in this category include: financial managers, general managers and top executives; marketing, advertising and public relations managers; educational administrators; and food service and lodging managers. First line supervisors are not included here in the managerial category, but are included in the occupational category in which they supervise.

Technical Occupations

Technical occupations account for a relatively small, but fast growing, portion of total employment in Utah. They claim about a 4 percent piece of the employment pie. Technical jobs are projected to grow at the fastest rate of all occupational categories, with an annual rate of 3.6 percent (the average is 2.3 percent). Roughly 9,310 new jobs will be created over the five-year period, lifting employment from the 2000 figure of 51,230, to the 2005 level of 60,540. Showing its growing posture, the technical occupational category will increase its share of total jobs over the period from 3.8 percent to 4.0 percent.

Examples of technical occupations include: engineering technicians (civil, mechanical, etc.); drafters; computer programmers; paralegals; licensed practical nurses; medical/clinical lab technicians and technologists; dental hygienists; aircraft pilots; and air traffic controllers.

Agricultural Occupations

The smallest job category in the State is agriculture. It accounts for a 3.0 percent slice of the total employment pie, with about 40,320 workers. Agriculture will actually grow by 3,320 new jobs over the 2000-to-2005 period. Growth will occur not only in occupations on the farm or ranch but in job titles related to landscaping and lawn services. This category will experience a

slower 1.6 percent annual rate of employment growth over the five-year time period, the smallest rate of growth of any of the eight job categories.

Employment will increase to 44,640 by 2005. About 1,920 job openings are projected to occur in agricultural occupations. Only 660 will fill growth needs while 1,260 will be to replace workers leaving the occupation. The primary agricultural occupations include farmers (owner/operator), farm managers, farm and livestock workers, nursery workers, animal caretakers, and landscape laborers.

Top 50 Occupations in Demand

Of the 700-plus occupations in the Utah job market, which ones offer the best potential for employment? What job titles are going to be "occupations in demand" in the next five years? The demand for each occupation is a function of four factors: the volume of employment, the number of new jobs projected, the rate of job growth, and the number of openings that will occur to replace workers who leave the occupation. These four demand factors were used to produce an index and **Composite Job Prospect Grade** assigned to each of the occupations shown in the Labor Demand and Supply tables. Based on this index, the top 50 occupations offer the best prospects for employment over the 2000-to-2005 period. More information on these and other occupations is presented in Table 3, the Statewide Labor Demand and Supply table.

TOP 50 OCCUPATIONS IN DEMAND IN UTAH 2000 - 2005

Accountants & Auditors	Managers, Engineering, Natural
Adjustment Clerks	Science, Info Systems
Amusement & Rec Attendants	Managers, Food Service &
Artists & Commerical Artists	Lodging
Auto Mechanics / Service Techs	Managers, General & Top Exec.
Bill & Account Collectors	Medical Assistants
Cashiers	Nurses, Registered
Child Care Workers	Nursing Aides, Orderlies,
Computer Support Specialists	Attendants
Computer Systems Analysts	Physicians
Cooks, Restaurant	Receptionists & Info. Clerks
Cosmetologists & Hairdressers	Sales Agents, Business Services
Counter & Rental Clerks	Sales Agents, Real Estate
Designers, Excl Interior	Sales Clerks, Retail
Engineers, Electrical & Electronic	Sales Reps, Non-Technical
Fast Food Workers	Secretaries, Exc. Legal & Med
First Line Superv, Mktg/Sales	Social Workers, Excl Medical &
First Line Superv, Office/Admin	Psychiatric
Support	Social/Human-Service Assistants
Food Preparation Workers	Teacher Aides, Paraprofessional
Guards	Teachers, Elementary
Hand Packers & Packagers	Teachers, Secondary School
Janitors & Cleaners	Telemarketers, Sales-Related
Laborers, Landscaping &	Truck Drivers, Heavy
Grndskpg	Truck Drivers, Light
Lawyers	Waiters & Waitresses
Maids & Housekeeping Cleaners	Writers, Editors
Maintenance Repairers, Gen.Util.	

Source: Utah Department of Workforce Services,
Workforce Information, January 2001.

Fastest-Growing Occupations in Utah

In addition to the "Top 50 Occupations in Demand" in Utah, many interested individuals and organizations have requested a list of the "fastest-growing" occupations in the State. Occupations on the Top 50 Fastest-Growing Occupations" list have the highest rates of job growth. All these job titles have annual average rates of growth of at least 3.8 percent, which are significantly above the State average of 2.5 percent. Occupations shown have an employment level of at least 500 for 1998. Caution should be used in emphasizing these occupations in terms of initiating training programs simply because the level of employment alone may be too low to justify creation of a program or curriculum.

Yet another request from users of job-outlook information is for a list of occupations in the State that will provide the most new jobs over the projections period. The list of the top 50 occupations with the most new jobs appears below. This list is based on the difference in employment between the base year of the projections period, 2000 - 2005, the out year of the five-year time frame. All of these occupations are projected to have at least 720 new jobs.

TOP 50 FASTEST-GROWING OCCUPATIONS IN UTAH 2000 - 2005

Actors/Directors/Producers	5.1	Medical Assistants	5.6
Amusement/Recreation Attendants	4.1	Musicians, Instrumental	4.9
Animal Caretakers, Excl Farm	4.1	Nursing Aides/Orderlies/Attends	4.3
Architects, Excl Landscape	4.4	Occupational Therapists	5.1
Artists & Commercial Artists	5.0	Paralegals & Legal Assistants	6.2
Biological Scientists	4.7	Personal/Home Care Aides	4.0
Child Care Workers	4.6	Photographic Process Workers, Precision	4.0
Computer Support Specialists	7.5	Physical Therapists	4.5
Computer Systems Analysts	6.9	Physical Therapy Assistants/Aides	5.0
Correctional Officers	4.6	Physicians Assistants	5.4
Court Reporters, Medical Transcriptionists	4.0	Police Patrol Officers	4.4
Dental Assistants	5.2	Private Detectives/Investigators	5.4
Dental Hygienists	5.1	Real Estate Appraisers	4.7
Dietitians & Nutritionists	3.9	Recreational Therapists	4.6
Duplicating Machine Operators	4.2	Registered Nurses	4.0
Engineers, Computer	6.8	Sales Agents, Business Services	4.2
Flight Attendants	4.5	Sheriffs & Deputy Sheriffs	4.9
Home Health Aides	4.9	Social Workers, Med/Psychiatric	4.3
Instructors/Coaches, Sports/P.E.	4.6	Social/Human Service Assistants	4.1
Interior Designers	4.8	Social Workers, Excl Med/Psychiatric	4.3
Management Analysts	4.5	Tax Preparers	5.1
Managers, Engineering, Nat Sci, Info Sys	4.0	Taxi Drivers & Chauffeurs	4.0
Managers, Medical/Health Services	4.7	Telemarketers, Sales Related Workers	7.2
Mathematical Technicians	5.5	Ushers/Lobby Attendants/Ticket Takers	4.2
Med Records/Health Info Techns	5.0	Writers & Editors	4.5

*The number next to the job title denotes the annual average employment growth rate for 2000-2005. The occupations shown in the list had 2000 employment of at least 500. The average employment growth rate for Utah between 2000-2005 is estimated at 2.3 percent.

Source: Utah Department of Workforce Services, Workforce Information, January 2001.

TOP 50 OCCUPATIONS WITH THE MOST NEW JOBS IN UTAH 2000 - 2005

Accountants & Auditors	1,290	Maintenance Repairers, Gen Util	870
Adjustment Clerks	1,420	Management Analysts	830
Artists & Commercial Artists	1,370	Managers, Food Service & Lodging	1,610
Automotive Mechanics/Svc Techs	1,790	Managers, General & Top Execs	2,010
Cashiers	3,770	Medical Assistants	780
Child Care Workers	2,590	Nurses, Registered	3,370
Computer Support Specialists	2,770	Nursing Aides, Orderlies, Attendants	1,490
Computer Systems Analysts	1,780	Office Clerks, General	2,680
Cooks, Restaurant	690	Physicians	1,220
Cosmetologists & Hairdressers	1,470	Reception & Information Clerks	1,680
Counter & Rental Clerks	1,110	Sales Agents, Business Services	1,110
Dental Assistants	760	Sales Agents, Real Estate	710
Designers, Excl Interior	1,160	Sales Clerks, Retail	3,940
Engineers, Computer	1,360	Sales Reps, Non-Technical	1,100
Fast Food Workers	840	Secretaries, Excl Legal or Medical	1,020
First Line Superv,Mktg/Sales	3,890	Social Workers, Excl Med & Psychiatric	950
First Line Superv, Office/Adm Support	1,530	Social/Human Service Assistants	790
Food Preparation Workers	700	Teacher Aides, Paraprofessional	1,720
Graduate Assistants, Teaching	1,100	Teachers, Elementary School	750
Hand Packers & Packagers	1,720	Teachers, Secondary School	1,460
Instructors/Coaches, Sports, P.E.	840	Telemarketers, Sales Related Workers	10,080
Janitors & Cleaners	2,950	Truck Drivers, Heavy	2,980
Laborers, Landscaping & Grndskpg	2,510	Truck Drivers, Light	2,120
Lawyers	1,470	Waiters & Waitresses	1,200
Maids & Housekeeping Cleaners	1,620	Writers & Editors	740

Source: Utah Department of Workforce Services, Workforce Information, January 2001.

Education, Training, and Experience Requirements of Utah Jobs

By the year 2005, about 22 percent of all jobs in the State will require at least a Bachelor's degree, based on a method of assigning training levels to occupations derived by the U.S. Bureau of Labor Statistics. This education, training, and experience classification system, when linked with the occupational employment projections for Utah, results in the following percentages of Utah jobs and education, training, and experience requirements: associate degree — 4 percent; postsecondary vocational training — 4 percent; work related experience — 9 percent; long-term (one year or more) on-the-job training — 8 percent; moderate-term (one month to one year) on-the-job training — 16 percent; and short term (less than one month) informal on-the-job training — 37 percent. Chart 5 presents the education and training levels of jobs in 2005.

This training classification system takes into account a number of different criteria to slot an occupation into one of the above groups, including: experience in the current or another occupation; formal/legislative requirements; the manner which most workers become proficient in a job; length of time to achieve average performance; and other factors. For more information refer to article "A Way to Classify Occupations by Education and Training," in the U.S. Department of Labor's, "Occupational Outlook Quarterly," Winter 1995-1996.

The Job Outlook in Utah's Service Delivery Areas

Utah has nine Service Delivery Areas (SDAs) or multi-county districts. Each of these makes up a unique labor market or area. This section of the **Outlook** presents a brief summary about each of them. Refer to [Chart 6](#) to review the SDAs employment projections for the 2000-to-2005 period. [Chart 7](#) provides a pie chart showing the content of new jobs over the five-year period by SDA. Finally, [Chart 8](#) depicts the projected employment growth rates for the Service Delivery Areas. Also refer to Appendix A for a map showing Utah's SDAs.

Wasatch Front South (Salt Lake and Tooele Counties)

This SDA is the economic hub of Utah; it accounts for about one-half of all 2000 and 2005 projected employment (see Chart 4 6). Forty-three percent of the total 154,500 new jobs in the State will be created in this district. Nearly 666,000 of the total 1,353,800 workers in Utah are employed in the Wasatch Front South SDA. During the five-year period ending in 2005, the Wasatch Front South area will add about 66,900 new jobs to payrolls of some 29,000 employers doing business in the two-county area. The annual growth rate will average 2.0 percent, or just slightly below the State average of 2.3 percent.

Mountainland (Summit, Utah, and Wasatch Counties)

This three-county area is the second largest SDA, claiming a 16.2 percent share (218,700) of all jobs in 2000. With an average employment growth rate of 2.6 percent, new jobs numbering 28,100 will be added over the five-year period for a total of 246,800 by 2005.

Weber - Morgan (Morgan and Weber Counties)

Employment in this area will increase from 114,800 in 2000 to 127,800 by 2005 resulting in new job growth of 13,000. Employment in this two-county area accounts for 8.5 percent of the State total. Weber-Morgan will grow at an annual employment growth rate of 2.3 percent, which is exactly equal to the State average.

Davis County

The only single-county SDA in the State, Davis County will experience an average employment growth rate of 2.4 percent per year, which will add 13,300 new jobs to the 2000 employment level of 114,500 for a 2005 jobs figure of 127,800. Davis County claims a 9 percent share of all jobs in the State in 2000 and 2005 and also a 9 percent slice of total new jobs.

When combined, these four service delivery areas—Wasatch Front South, Mountainland, Weber - Morgan, and Davis County—account for 82.3 percent of total 2000 employment, an 81.9 percent portion of 2005 jobs, and 78.5 percent of all new jobs projected for Utah over the five-year period.

Bear River (Box Elder, Cache, and Rich Counties)

Employment in this northernmost SDA will increase by about 10,000 between 2000 and 2005. These new jobs equate to an annual growth rate of 2.4 percent, which is slightly higher than the State average. The employment level in 2000 is projected to be 82,100. Total jobs for 2005 are projected at 92,200. The Bear River SDA will contribute about 6.5 percent of all new jobs in Utah over the five year period.

Southwest (Beaver, Garfield, Iron, Kane, and Washington Counties)

The Southwest SDA is again number one in terms of the rate of employment growth. Continuing its quick-paced growth history, employment in the area will increase from a 2000 figure of 75,600 to 90,800 by 2005, a growth rate of 4.0 percent per year, significantly higher than the State average of 2.3 percent. Nearly 50 percent of these new jobs will be concentrated in the trade and services industries, reflecting the tourism, travel, and recreation economic base of the district. The hog farm complex in Beaver County is a major employer and will enhance opportunities in the northern part of the Southwest SDA.

Central (Juab, Millard, Piute, Sanpete, Sevier, and Wayne Counties)

"Less-than-average" describes the employment outlook for the "Six-County Area." Only 3,600 new jobs are projected for the five-year period. These new jobs amount to a growth rate of 2.2 percent, somewhat less than the State average. Employment will increase from 32,200 to 35,700 over the five-year period. The Central SDA will claim a 2.3 percent share of total jobs in the year 2005.

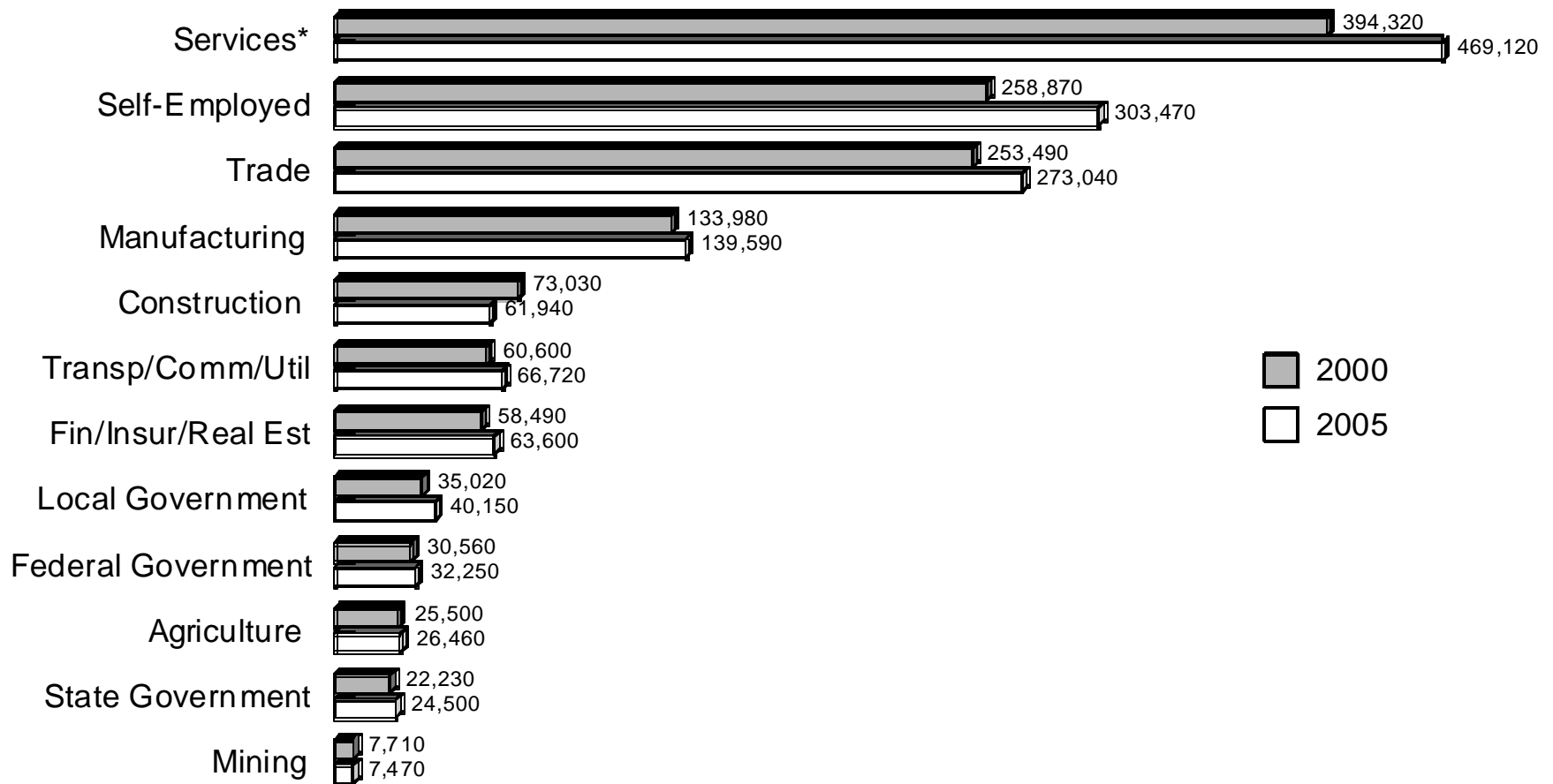
Southeast (Carbon, Emery, Grand, and San Juan Counties)

The Southeast area will experience lower growth than most of the other areas in the State. With a growth rate of just 1.9 percent per year, new jobs will number 2,800 over the 2000-to-2005 period. Total employment in the SDA will increase from 29,100 to 31,900. Fifty-four percent of all the new jobs in the SDA will be in the trade and services industries.

Uintah Basin (Daggett, Duchesne, and Uintah Counties)

The Uintah Basin will also experience slow job growth over the period. Employment will increase by about 1,550 new jobs from 20,900 to 22,450. Its job growth rate is estimated at 1.5 percent per year, less than the State average of 2.3 percent. Over 900 of the 1,700 new jobs expected will be in the trade and services industry sectors.

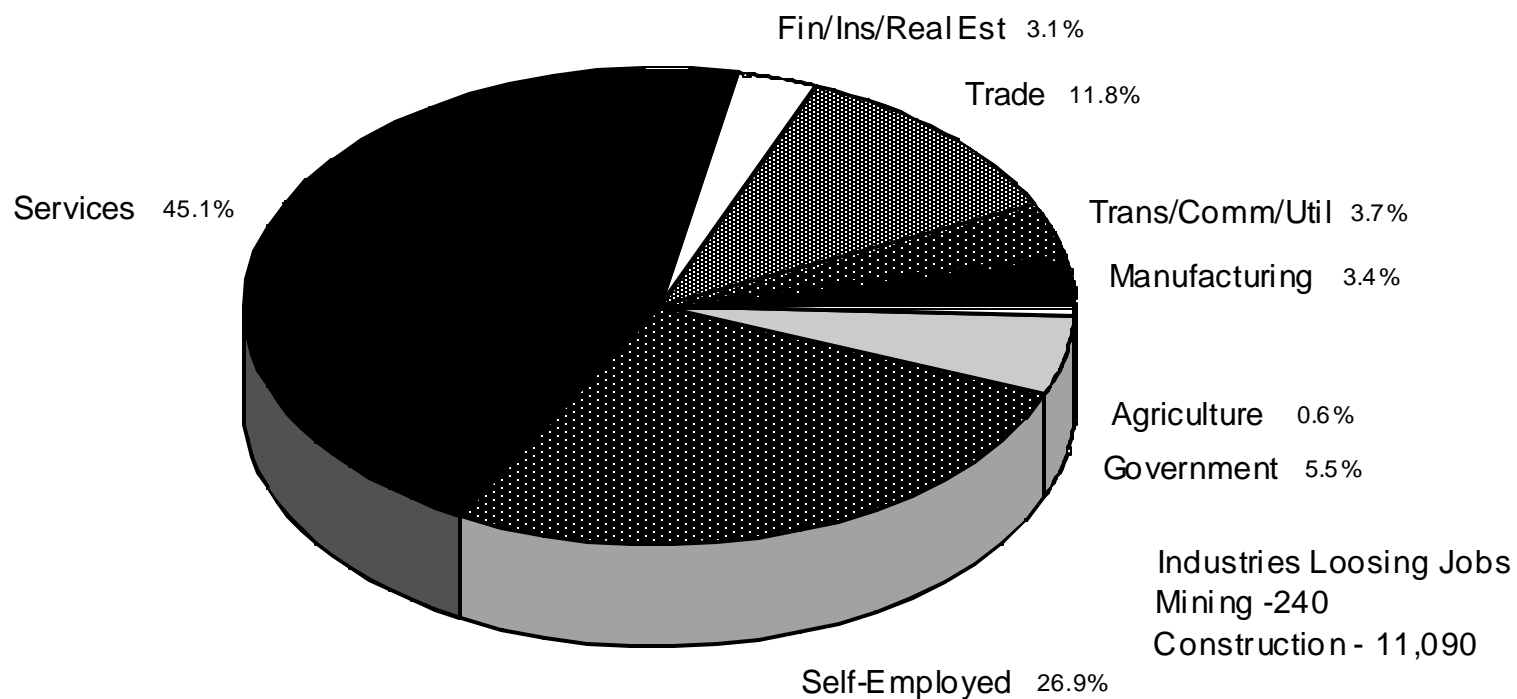
Chart 1
Utah Employment Projections
By Major Industry Category, 2000 - 2005



*Includes public educational services (local school districts & higher ed)

Source: Utah Dept. of Workforce Services, Workforce Information, January 2001

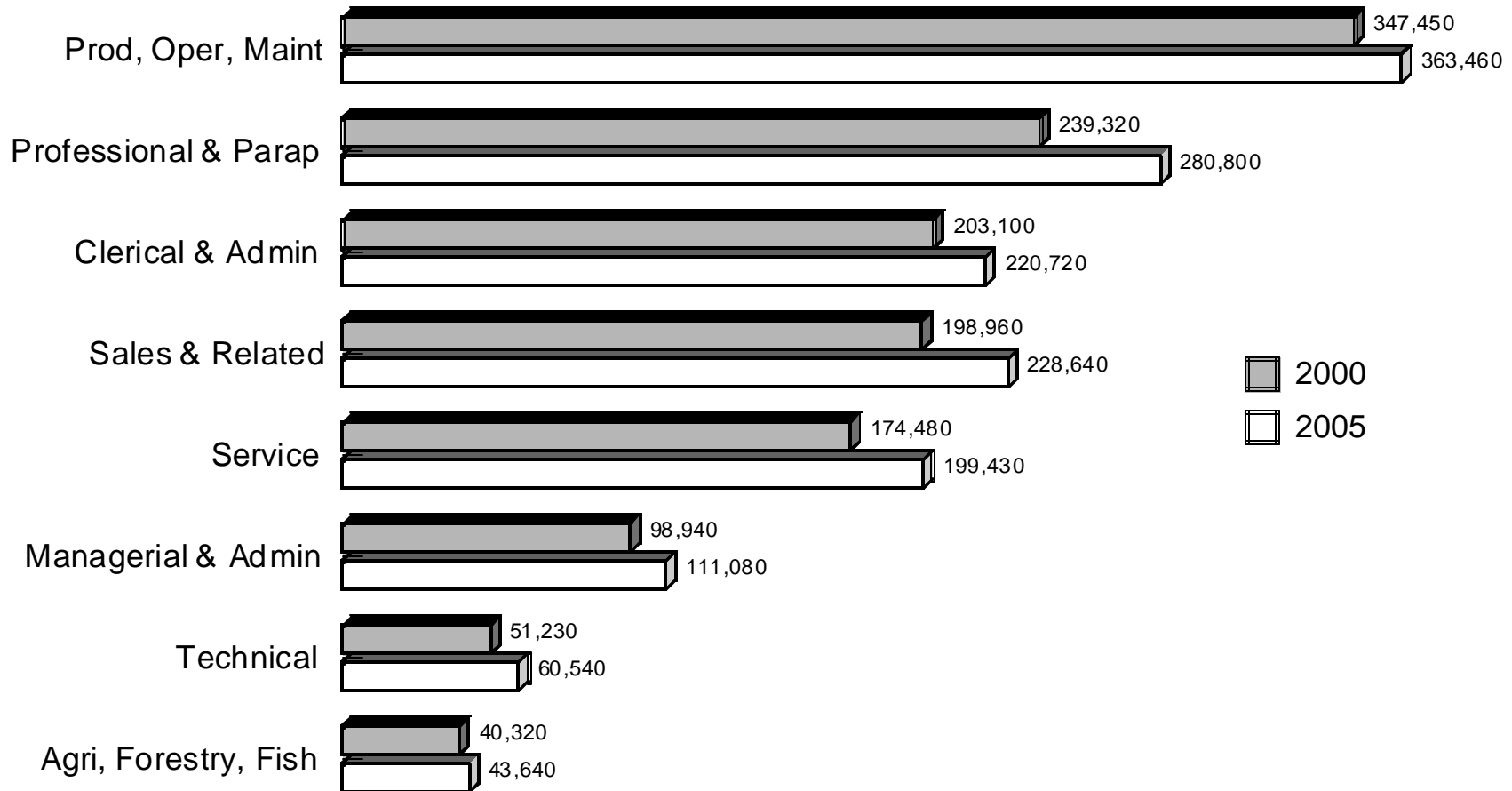
Chart 2
Utah-Statewide New Jobs
By Major Industry Category, 2000 - 2005



Total New Jobs = 154,510

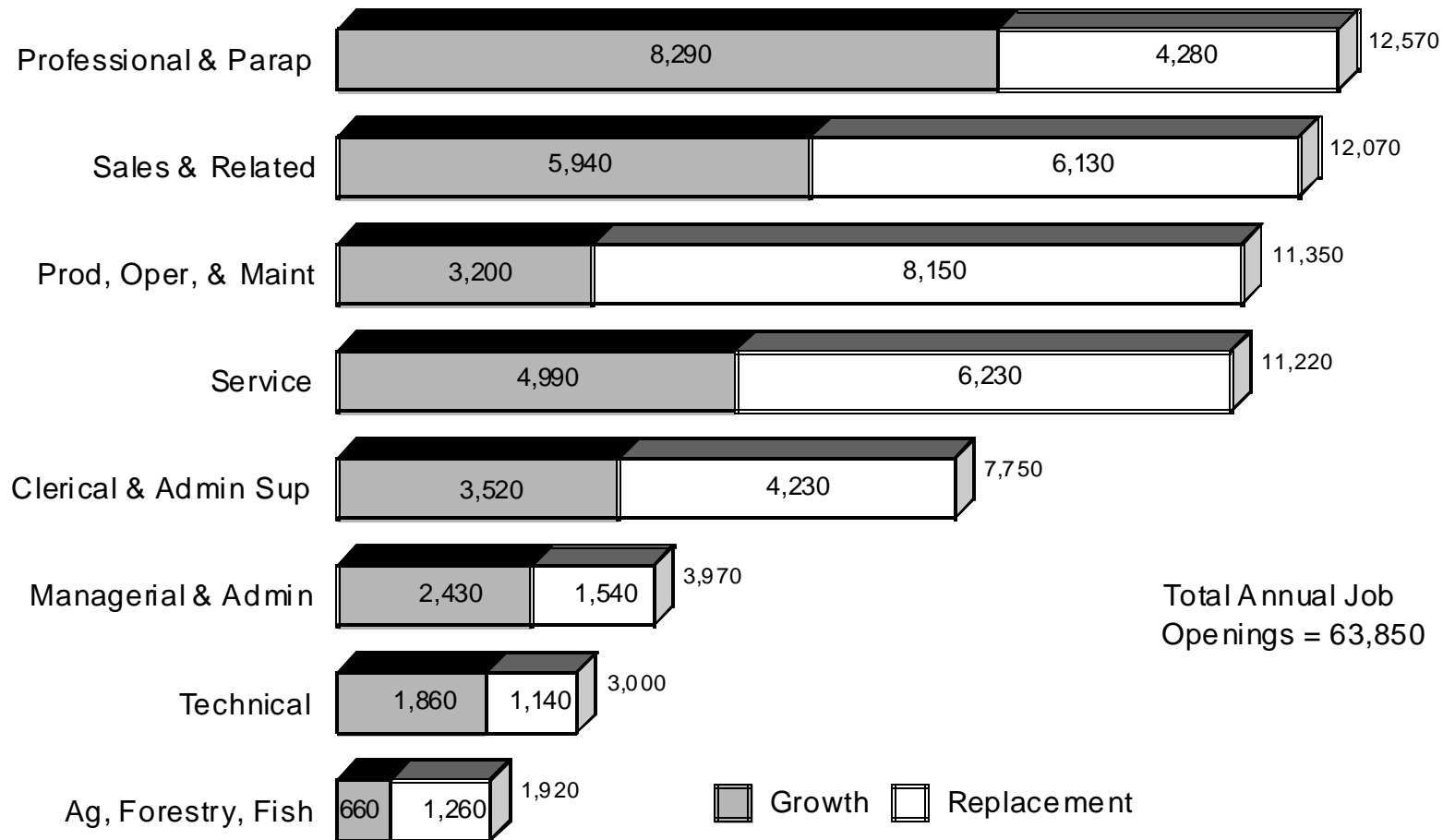
Source: Utah Dept. of Workforce Services, Workforce Information, January 2001.

Chart 3
Utah Employment Projections
By Major Occupational Category, 2000 - 2005



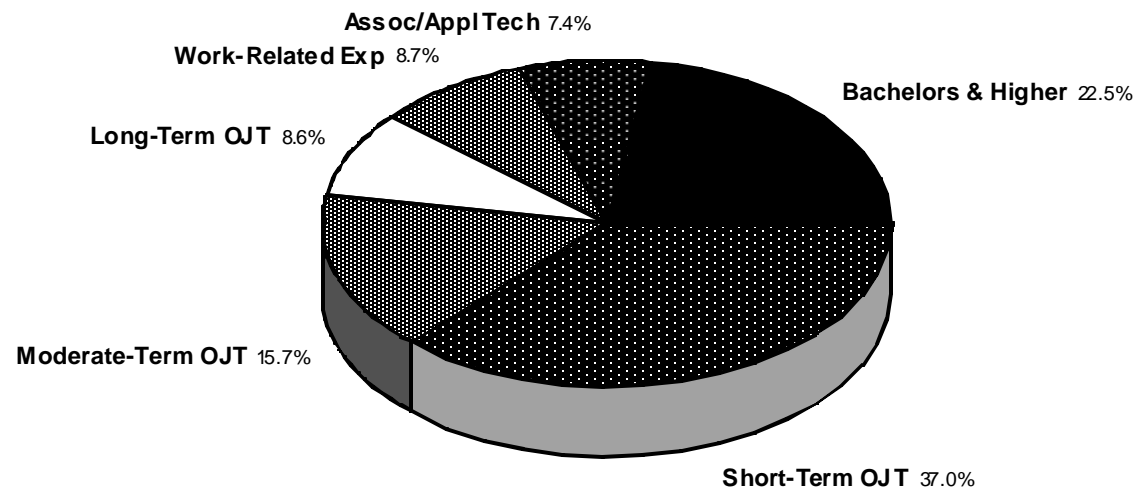
Source: Utah Dept. of Workforce Services, Workforce Information, January 2001.

Chart 4
Annual Job Openings by Occupational Category
Utah - Statewide, 2000 - 2005



Source: Utah Dept. of Workforce Services, Workforce Information, January 2001.

Chart 5
Utah Jobs
By Training Level, 2005



“BS & Higher” require sfirst professional degree, doctor’s degree, ma ster’s degree, bachelor’s degree, or work-related experience plu s a bachelor’s degree. Require s experience in another occupation that require s a bachelor’s degree or more education.

“Assoc/Applied Tech” require san associates degree or post-secondary applied technology education.

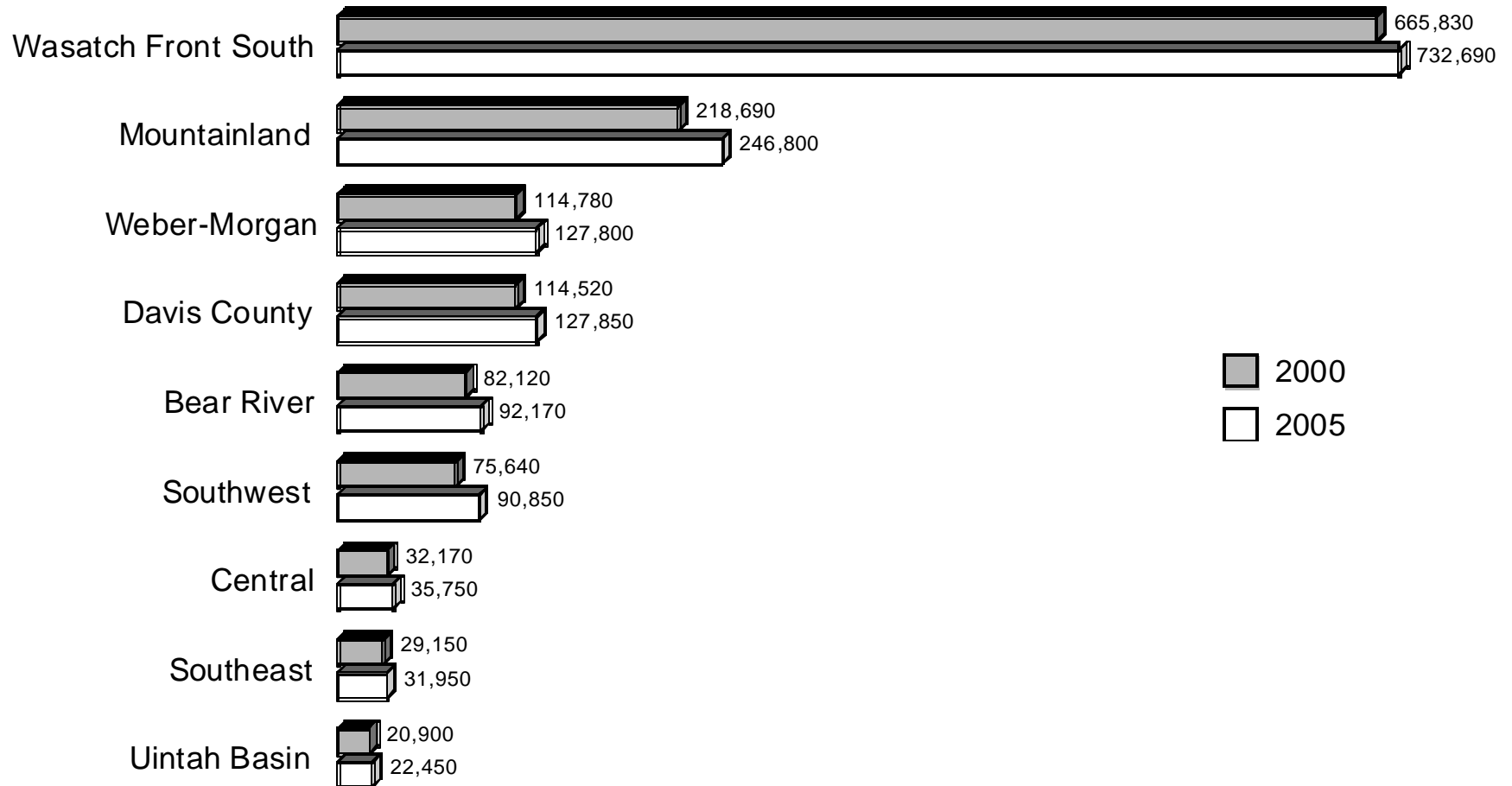
“Work-Related Experience” require sexperience in another occupation or skill acquired through the military, hobbies, or general life experience.

“Long Term OJT” generally require sone year or more of exten sive experience and/or training on the job to develop the skill s needed for average performance.

“M oderate Term OJT” generally require sone to 12 month s combined wo rk experience and training on the job to develop skill s needed for average job performance.

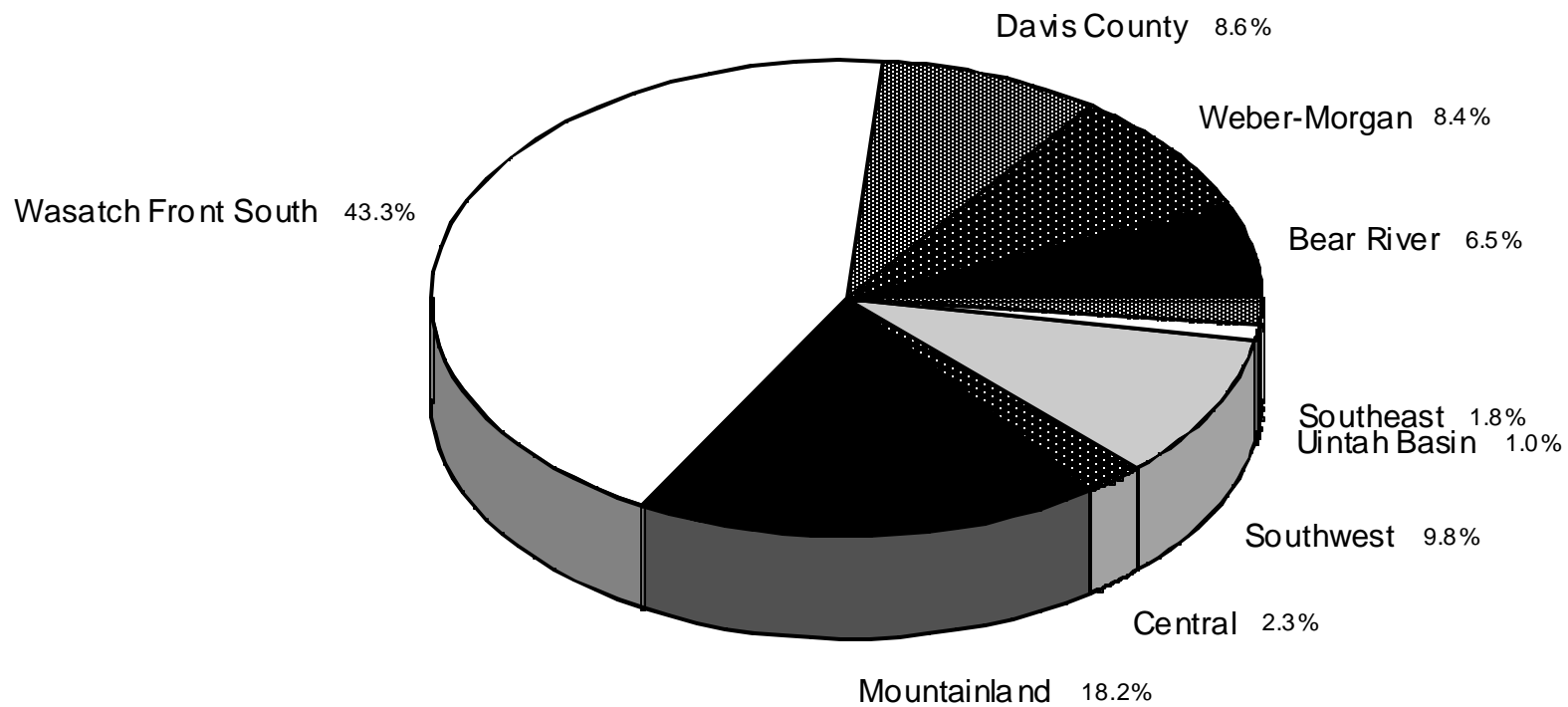
“Short Term OJT” require sinformal on the job training of le ss than one month. Average performance can be achieved after a short demon stration or up to one month of on the job training and in struction.

Chart 6
Utah Employment Projections
By Service Delivery Area, 2000 - 2005



Source: Utah Dept. of Workforce Services, Workforce Information, January 2001.

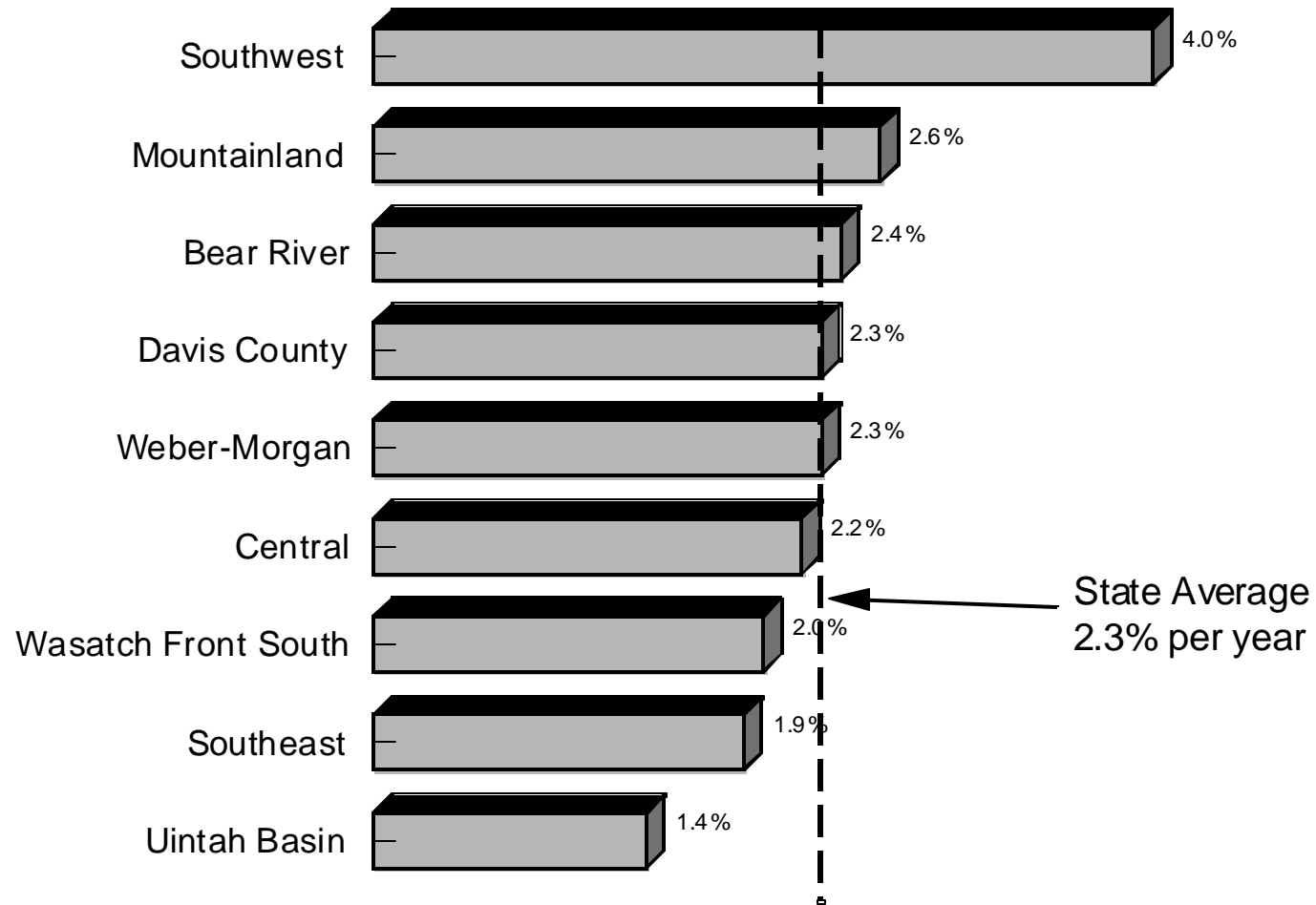
Chart 7
New Jobs in Utah's Service Delivery Areas
2000 - 2005



Total New Jobs
2000 - 2005 = 154,510

Source: Utah Dept. of Workforce Services, Workforce Information, January 2001.

Chart 8
Utah Annual Employment Growth Rates
By Service Delivery Area, 2000 - 2005



Source: Utah Dept. of Workforce Services, Workforce Information, January 2001.

TABLE 1
UTAH - STATEWIDE
EMPLOYMENT PROJECTIONS BY MAJOR INDUSTRY
2000-2005

Industry	Employment		New Jobs 2000-2005	Annual Growth Rate
	2000	2005		
Total Employment	1,353,800	1,508,310	154,510	2.3
Mining	7,710	7,470	(240)	-0.6
Construction	73,030	61,940	(11,090)	-3.0
Manufacturing	133,980	139,590	5,610	0.8
Transportation/Comm/Utilities	60,600	66,720	6,120	2.0
Trade	253,490	273,040	19,550	1.5
Finance/Insurance/Real Estate	58,490	63,600	5,110	1.7
Services*	394,320	469,120	74,800	3.8
Federal Government	30,560	32,250	1,690	1.1
State Government	22,230	24,500	2,270	2.0
Local Government	35,020	40,150	5,130	2.9
Agriculture	25,500	26,460	960	0.8
Self-Employed	258,870	303,470	44,600	3.4

* State Education and Local School District employment is included in Educational Services, a sub-industry of Services.

Source: Utah Department of Workforce Services, Workforce Information, and the Governor's Office of Planning and Budget, Demographic and Economic Analysis, January 2000.

TABLE 2
UTAH - STATEWIDE
EMPLOYMENT AND JOB OPENINGS SUMMARY
BY MAJOR OCCUPATIONAL CATEGORY
2000-2005

Occupational Category	Employment		<u>Annual Average Job Openings</u>		
	2000	2005	Total	Due to Growth	Due to Replacement
Total - All Categories	1,353,800	1,508,310	63,850	30,890	32,960
Managerial & Administrative	98,940	111,080	3,970	2,430	1,540
Professional & Paraprofessional	239,320	280,800	12,570	8,290	4,280
Technical	51,230	60,540	3,000	1,860	1,140
Sales & Related	198,960	228,640	12,070	5,940	6,130
Clerical & Administrative Support	203,100	220,720	7,750	3,520	4,230
Service	174,480	199,430	11,220	4,990	6,230
Agriculture, Forestry, & Fishing	40,320	43,640	1,920	660	1,260
Production, Operating, & Maintenance	347,450	363,460	11,350	3,200	8,150

Source: Utah Department of Workforce Services, Workforce Information, January 2000.

DESCRIPTION OF LABOR DEMAND TABLE

The Labor Demand table(s) presents a variety of information from various sources. Its primary function is to provide valuable labor market information for use by planners in developing training programs for "occupations in demand." Below is a column-by-column description of the information along with comments and/or uses of the data. The first shaded area highlights the total demand column, the data element that best portrays the demand for the occupation. The second shaded area denotes the job demand "grade" assigned to the occupation.

Occupation - This column shows the demand occupation from the Utah projections system. The projections system generates estimates for about 700 job titles using the Occupational Employment Statistics (OES) coding structure. Only those occupations that meet the publication criteria appear in the Labor Demand table. The criteria for inclusion is the number of average annual job openings which varies by Service Delivery Area. For the Statewide table (Table 3), an occupation had to have at least 50 average annual job openings to be listed. In the Wasatch Front South Service Delivery Area (SDA), the level is 25 average annual job openings. The publication criteria is ten average annual job openings in all other Service Delivery Areas (SDAs) across the State.

OES Code - The OES occupation code (the five-digit number) that relates to the title to the left under the Occupation column heading, is shown to provide the reader a link with other information systems, namely the "Choices" career information delivery system.

Training/Education Code - This column contains the code that defines the education and training requirements for the occupation. This code represents the education and training classification system developed by the U.S. Department of Labor, Bureau of Labor Statistics. Each OES job title and code is assigned an education code. The brief definition of the codes is shown in the footnote at the end of the table and also here:

<u>Training Code</u>	<u>Description</u>
1	First Professional Degree.
2	Doctor's Degree.
3	Master's Degree.
4	Bachelor's Degree.
5	Work related experience, plus a bachelor's degree.
6	Associate Degree.
7	Post-secondary vocational education.
8	Work-related experience, requires experience in another occupation or skill acquired through the military, hobbies, or general life experience.

- 9 Long-term (one year or more) on-the-job training. Generally requires extensive experience and/or training to develop the skills needed for average performance.
- 10 Moderate-term (one month to one year) on-the-job training. Generally requires 1-12 months combined work experience and training to develop skills needed for average job performance.
- 11 Short-term (less than a month) informal on-the-job instruction. Average performance can be achieved after a short demonstration or up to one month of on-the-job experience and instruction.

Wages - Mean, Median, and Middle Range - These four columns represent estimates of current wages. The wage measures originate from a survey system that collects employment and wage ranges by occupation from a sample of Utah employers. The Mean is the weighted average of workers in the occupation. The Median is the "middle wage" of all wages arrayed from low to high for the occupation, it is also called the 50th percentile. The Middle Range represents the wages for the middle one-half of the workers in the occupation, one fourth of the workers earned less than the low end of the middle range

and one-fourth of the workers earned wages higher than the high end of the middle range. This middle range is also denoted by the 25th and 75th wage percentiles. The wage data represents 1998-1999 survey information.

Labor Demand, Total Employment 2000 and 2005

These two columns present the estimate of the occupation's employment in the total labor market (including wage and salary, agricultural, and self-employed employment) for the "base" year (2000) and the "out" year (2005) of the projections period. This information, along with the average annual job openings data (shown to the right), originate from the projections system used to estimate the total labor market.

Labor Demand, Average Annual Job Openings -

These three columns -- Growth, Replace (Replacement), and Total -- present the number of job openings estimated to occur each year over the five-year period. "Total" job openings is the sum of openings resulting from 1) growth in the economy and 2) the need to replace the net number of workers who leave the occupation or leave the labor force. (See Appendix D, Phase III, for more information about "replacement" demand.) These openings represent an estimate of job opportunities. They do not include openings that result from job turnover in the labor market.

Composite Job Prospect Grade - This column helps the reader identify job potential for occupations relative to other occupations in the SDA. Grades were assigned based on a composite demand index which uses four important job demand factors. They are: (1) volume of employment, (2) number of new jobs, (3) rate of growth, and (4) the level of replacement demand. The **Composite Job Prospect Grade** is assigned to just those occupations that meet the publication criteria for the "Outlook." These occupations are ranked independently on the four "demand" factors.

The occupation's position on the list (four separate lists of occupations) is summed and a composite ranking is created. A letter grade of either A, B, or C, is assigned to each occupation according to the position on the composite rank. The top 15 percent of the occupations were assigned an "A," the next 30 percent a "B," and the remaining 55 percent a "C." All occupations on the table are considered "occupations in demand" in the SDA.

TABLE 3
STATEWIDE SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					Grade
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			
					From	To	2000	2005	Growth	Replace	Total	
21114	Accountants & Auditors	5	\$18.40	\$15.80	\$13.30	\$21.20	11,300	12,590	260	170	430	B
55338	Accounting & Bookkeeping Clerks	10	10.40	10.00	8.20	11.70	18,650	19,040	80	330	410	B
34056	Actors, Directors, Producers	9	9.30	6.40	5.80	11.90	1,980	2,540	110	40	150	B
53123	Adjustment Clerks	11	9.80	9.50	8.10	10.90	8,680	10,100	280	40	320	B
97702	Aircraft Pilots & Flight Engineers	5	NA	NA	NA	NA	1,370	1,550	40	20	60	C
68014	Amusement & Recreation Attendants	11	6.20	5.80	5.60	6.50	2,790	3,410	120	80	200	B
79017	Animal Caretakers, Excl Farm	11	8.80	7.90	6.20	10.20	1,990	2,430	90	30	120	C
22302	Architects, Excl Landscape	5	22.80	18.60	14.90	27.40	1,230	1,520	60	20	80	C
34035	Artists & Commercial Artists	4	16.00	14.40	12.30	18.80	4,930	6,290	270	100	370	A
85305	Automotive Body & Rel Repairers	9	13.30	11.70	8.30	16.00	2,700	3,100	80	80	160	B
85302	Automotive Mechanics/Service Technicians	7	13.40	13.00	9.50	16.60	10,460	12,250	360	250	610	A
65021	Bakers, Bread & Pastry	10	8.80	8.30	7.00	10.40	2,120	2,300	40	70	110	C
53102	Bank Tellers	11	8.10	7.90	7.00	8.90	4,580	4,730	30	220	250	C
65005	Bartenders	11	6.80	6.30	5.70	7.80	2,330	2,440	20	100	120	C
53508	Bill & Account Collectors	11	9.80	9.70	8.00	11.10	3,810	4,460	130	100	230	B
55344	Billing/Cost/Rate Clerks	11	10.30	9.90	8.30	11.70	2,340	2,570	50	40	90	C
24308	Biological Scientists	2	23.60	21.30	17.60	29.10	760	960	40	10	50	C
34028	Broadcast & Sound Technicians	7	NA	NA	NA	NA	640	730	20	40	60	C
43005	Brokers, Real Estate	8	NA	NA	NA	NA	2,250	2,630	80	40	120	C
97111	Bus Drivers, School	11	11.00	11.30	8.40	13.60	3,640	3,920	60	60	120	C
97108	Bus Drviers, Transit/Intercity	10	11.80	12.40	8.50	14.70	1,670	1,890	50	30	80	C
89311	Cabinetmakers/Bench Carpenters	9	10.60	10.30	7.70	12.50	2,790	2,910	20	30	50	C
87102	Carpenters	9	13.70	13.70	11.10	16.00	21,340	20,060	(260)	570	310	C
87602	Carpet Installers	10	NA	NA	NA	NA	1,960	2,050	20	40	60	C
49023	Cashiers	11	7.30	7.00	6.10	8.50	32,930	36,700	750	1860	2610	A
68038	Child Care Workers	11	6.70	6.50	5.80	7.70	10,310	12,900	520	90	610	A
98905	Cleaners of Vechicles/Equipment	11	7.40	7.00	5.90	8.40	3,340	3,730	80	100	180	B

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 3
STATEWIDE SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					Grade
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			
					From	To	2000	2005	Growth	Replace	Total	
25105	Computer Programmers	5	22.90	21.90	17.30	29.40	4,640	5,110	90	140	230	B
25104	Computer Support Specialists	6	15.80	15.20	11.30	19.50	6,400	9,170	550	30	580	B
25102	Computer Systems Analysts	5	23.20	22.80	17.70	31.40	4,540	6,320	360	20	380	B
65032	Cooks, Fast Food	11	6.50	6.10	5.70	7.40	4,500	4,860	70	140	210	B
65028	Cooks, Institution/Cafeteria	9	8.60	8.40	6.90	10.00	3,050	3,180	30	100	130	C
65026	Cooks, Restaurant	9	8.10	7.80	6.60	9.00	6,270	6,960	140	200	340	B
65035	Cooks, Short Order	11	6.60	6.40	5.80	7.50	2,740	3,110	80	90	170	B
63017	Correctional Officers	9	13.50	12.70	11.30	15.00	1,700	2,130	90	40	130	B
68005	Cosmetologists & Hairdressrs	7	7.80	7.00	5.90	9.10	7,120	8,590	290	180	470	A
31514	Counselors	3	14.60	13.50	11.20	16.90	2,530	2,820	60	50	110	C
49017	Counter & Rental Clerks	11	7.90	7.40	6.20	8.80	5,540	6,640	220	260	480	A
65017	Counter Attendants/Lunchrm/Cafeteria	11	6.60	6.50	5.80	7.60	4,700	5,050	70	650	720	B
57311	Couriers & Messengers	11	7.80	7.70	6.70	8.80	1,170	1,300	30	30	60	C
55302	Court Reporters, Medical Trans, & Stenos	7	11.40	9.50	7.80	12.80	1,320	1,610	60	20	80	C
89505	Custom Tailors & Sewers	8	NA	NA	NA	NA	1,410	1,660	50	30	80	C
55335	Customer Service Reps, Utilities	11	12.50	10.30	8.30	16.70	1,560	1,660	20	40	60	C
56017	Data Entry Keyers, Ex Composing	10	8.60	8.30	7.30	9.90	3,280	3,550	50	20	70	C
66002	Dental Assistants	10	9.20	8.80	7.40	10.90	2,630	3,390	150	30	180	B
32908	Dental Hygienists	6	26.10	27.80	21.90	36.10	770	980	40	10	50	C
32105	Dentists	1	43.60	50.70	34.10	**	2,980	3,340	70	60	130	C
34038	Designers, Excl Interior	5	11.50	9.30	7.20	14.00	5,460	6,620	230	70	300	A
85311	Diesel Engine Mechanics	9	14.50	14.10	11.80	17.30	3,480	3,840	70	70	140	B
65014	Dining Room/Cafe Attendants Bar Helpers	11	6.70	6.20	5.70	7.70	2,740	2,840	20	120	140	C
22514	Drafters	7	13.90	13.10	10.70	16.10	3,510	3,840	70	80	150	C
97117	Driver/Sales Workers	11	8.50	7.30	6.10	10.10	3,020	3,170	30	60	90	C
15005	Education Administrators	4	26.40	28.70	20.00	37.50	3,650	4,080	90	80	170	B
22505	Electrical & Electronic Techs/Technologists	6	17.40	17.00	12.80	20.90	2,950	3,200	50	60	110	C

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 3
STATEWIDE SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
93114	Electrical/Electronic Assemblers	8	9.50	8.80	7.50	10.90	2,140	2,180	10	40	50	C
85717	Electronics Repairers, Comm or Ind Equip	7	17.10	17.50	12.80	20.70	1,250	1,350	20	40	60	C
32508	Emergency Medical Techns/Paramedicals	7	9.10	9.10	7.50	10.20	2,870	3,410	110	70	180	B
22121	Engineers, Civil	5	24.20	22.50	18.50	30.30	2,050	2,430	80	30	110	C
22127	Engineers, Computer	5	27.50	28.90	22.00	37.10	3,500	4,850	270	20	290	B
22126	Engineers, Electrical & Electronic	5	28.40	30.00	23.20	37.60	4,610	5,270	130	90	220	B
22135	Engineers, Mechanical	5	25.70	25.00	20.40	34.70	1,530	1,690	30	30	60	C
74002	Farm Workers, Ex Agri Services	11	NA	NA	NA	NA	16,850	16,730	(30)	580	550	C
65041	Fast Food Workers	11	6.40	6.00	5.60	7.00	12,780	13,630	170	760	930	B
55321	File Clerks	11	8.10	7.70	6.30	9.30	2,670	2,860	40	100	140	C
63008	Fire Fighters	9	9.50	9.20	5.90	12.90	1,500	1,670	30	30	60	C
81005	First Line Supervisors, Construction & Mining	8	19.70	18.80	15.20	23.00	11,210	11,030	(40)	290	250	C
41002	First Line Supervisors, Marketing/Sales	8	15.60	12.70	10.00	18.70	35,290	39,170	780	400	1180	A
51002	First Line Supervisors, Office/Admin Support	8	15.00	13.40	10.90	17.80	12,100	13,640	310	250	560	A
81008	First Line Supervisors, Production	8	16.30	14.70	11.30	19.50	6,190	6,610	80	170	250	B
81011	First Line Supervisors, Transportation	8	17.20	16.30	13.40	19.00	1,240	1,340	20	30	50	C
81002	First Line Supervisors: Mech & Repairers	8	19.50	18.10	13.70	23.20	3,640	3,950	60	100	160	C
68026	Flight Attendants	9	NA	NA	NA	NA	1,240	1,540	60	20	80	C
65038	Food Preparation Workers	11	6.90	6.50	5.80	7.90	10,780	11,480	140	640	780	B
65011	Food Servers	11	6.40	6.30	5.70	7.40	390	470	20	50	70	C
63047	Guards	11	8.80	8.00	7.00	9.50	4,610	5,240	130	120	250	B
98902	Hand Packers & Packagers	11	7.00	6.60	5.80	8.00	8,830	10,550	340	220	560	A
98312	Helpers, Carpenters & Related	11	8.80	8.40	7.20	10.50	4,090	3,670	(90)	210	120	C
66011	Home Health Aides	11	7.70	7.50	6.50	8.60	2,280	2,900	120	30	150	B
65002	Hosts/Hostesses, Restaurant, Lounge	11	6.80	6.50	5.80	7.80	1,980	2,170	40	60	100	C
53808	Hotel/Motel/Resort Desk Clerks	11	7.30	7.30	6.40	8.20	1,980	2,320	70	90	160	B
21511	Human Resource/Training/Labor Rel Specs	5	17.90	16.40	12.90	21.70	2,940	3,410	100	80	180	B

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 3
STATEWIDE SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
85110	Industrial Machinery Mechanics	9	14.60	14.60	12.00	17.10	2,230	2,410	40	40	80	C
97947	Industrial Truck & Tractor Operators	11	12.00	11.70	9.60	14.00	2,800	3,030	40	30	70	C
21911	Inspectors & Compliance Officers	8	17.40	16.10	13.40	20.10	1,310	1,490	40	20	60	C
83005	Inspectors & Testers, & Graders, Production	8	11.90	10.90	8.60	14.30	2,770	2,830	10	80	90	C
31517	Instructional Coordinators	5	16.80	15.20	12.60	19.60	1,450	1,690	50	10	60	C
31317	Instructors, Adult (Non-VocEd)	8	11.20	10.50	8.40	12.70	1,770	2,080	60	20	80	C
31321	Instructors/Coaches, Sports/Phy	10	11.00	10.30	6.10	14.80	3,360	4,200	170	30	200	B
53302	Insurance Adjusters, Examiners, Investigators	9	19.60	19.40	13.10	24.10	1,280	1,470	40	20	60	C
53314	Insurance Policy Processing Clerks	10	10.40	10.40	9.50	11.00	1,630	1,820	40	20	60	C
43002	Insurance Sales Agents	5	18.50	15.10	9.10	26.00	4,500	5,020	100	100	200	B
34041	Interior Designers	5	NA	NA	NA	NA	1,370	1,730	70	20	90	C
55332	Interviewing Clerks, Excl Personnel	11	8.40	8.30	6.70	9.90	2,690	3,220	110	90	200	B
67005	Janitors & Cleaners	11	7.90	7.40	6.20	8.90	20,980	23,920	590	480	1070	A
79041	Laborers, Landscaping & Groundskeeping	11	8.20	7.90	6.60	9.40	15,780	18,290	500	520	1020	A
92726	Laundry/Drycleaning Machine Operators	10	8.20	7.60	6.30	9.00	1,720	2,010	60	50	110	C
28108	Lawyers	1	34.70	33.20	22.10	52.70	8,330	9,800	290	80	370	A
53902	Library Assists/Bookmobile Drivers	11	8.30	7.90	7.00	9.20	930	1,060	30	50	80	C
31505	Library Technicians	11	9.90	9.50	7.60	11.10	680	770	20	40	60	C
32505	Licensed Practical/Voc Nurses	7	12.10	11.80	10.50	13.40	3,590	4,210	120	70	190	B
21108	Loan Counselors & Officers	5	17.60	15.10	11.30	21.00	2,820	3,150	70	50	120	C
98502	Machine Feeders & Offbearers	11	8.50	8.20	7.10	9.70	1,240	1,330	20	40	60	C
89108	Machinists	9	14.30	14.40	11.40	17.20	3,300	3,500	40	60	100	C
67002	Maids & Housekeeping Cleaners	11	6.80	6.60	5.80	7.80	8,690	10,310	320	160	480	A
57302	Mail Clerks, Excl Mail Machine	11	8.20	7.80	7.10	8.80	2,140	2,350	40	60	100	C
85132	Maintenance Repairers, Gen Util	9	11.50	10.70	8.30	14.00	9,460	10,320	170	210	380	B
21905	Management Analysts	4	23.80	22.60	18.50	31.30	3,350	4,180	170	20	190	B
13014	Managers, Administrative Services	4	21.40	19.30	14.10	26.80	3,860	4,290	90	60	150	B

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 3
STATEWIDE SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
13011	Managers, Advertising, Marketing, Sales	4	27.80	24.70	17.50	39.60	4,280	4,860	120	50	170	B
15023	Managers, Communication/Transp/Utilities	4	22.70	20.30	14.80	28.90	1,520	1,680	30	20	50	C
13017	Managers, Engineering, Nat Sci, Info Sys	4	33.10	34.80	26.30	43.30	3,020	3,680	130	50	180	B
71005	Managers, Farm	4	NA	NA	NA	NA	1,800	1,910	20	30	50	C
13002	Managers, Financial	4	25.10	22.60	16.30	35.30	6,820	7,460	130	90	220	B
15026	Managers, Food Service & Lodging	8	13.30	11.90	8.50	15.40	9,810	11,420	320	150	470	A
19005	Managers, General & Top Execs	4	28.00	24.50	16.30	41.20	23,810	25,820	400	370	770	A
13005	Managers, Human Resources	4	21.10	19.10	13.40	29.40	1,810	2,030	40	40	80	C
15008	Managers, Medical/Health Services	4	25.70	24.20	18.00	35.50	2,320	2,920	120	40	160	B
15011	Managers, Property & Real Estate	5	15.80	13.60	8.30	19.80	3,580	4,240	130	50	180	B
98102	Mechanic & Repairer Helpers	11	9.00	8.50	6.70	10.10	2,150	2,380	50	110	160	C
66005	Medical Assistants	10	9.40	9.00	7.60	10.80	2,500	3,280	160	60	220	B
32911	Medical Records & Health Info Techns	6	10.00	9.00	7.70	12.00	710	900	40	20	60	C
32905	Medical/Clinical Lab Technicians	6	10.30	9.20	7.70	11.40	1,660	2,000	70	10	80	C
32902	Medical/Clinical Lab Technologists	5	17.80	17.80	15.30	19.90	1,300	1,540	50	10	60	C
85314	Mobile Heavy Equipment Mechanics	9	16.60	16.60	13.40	19.40	1,620	1,750	30	40	70	C
53105	New Accounts Clerks, Banking	8	9.80	9.70	8.20	10.80	1,340	1,480	30	40	70	C
32502	Nurses, Registered	6	20.20	19.60	16.70	23.00	15,610	18,980	670	220	890	A
66008	Nursing Aides, Orderlies, Attendants	11	8.00	7.80	7.00	8.70	6,350	7,830	300	80	380	A
55347	Office Clerks, General	11	9.50	8.80	7.20	10.80	22,540	25,220	540	650	1190	A
85926	Office Mach/Cash Register Servicers	9	10.60	8.10	7.10	13.10	1,530	1,720	40	30	70	C
55323	Order Clerks	11	9.80	9.30	7.80	11.00	4,060	4,250	40	90	130	C
58026	Order Fillers, Wholesale/Retail	11	10.40	10.00	8.00	12.60	2,990	3,320	70	60	130	C
92974	Packaging, Filling Machine Operators	10	8.90	8.20	7.20	10.20	3,960	4,440	100	100	200	B
87402	Painters & Paperhangers	10	11.90	11.00	9.30	13.70	7,680	7,390	(60)	190	130	C
28305	Paralegals & Legal Assistants	6	15.70	15.10	12.10	18.70	790	1,070	60	0	60	C
49014	Parts Salespersons	10	12.60	11.30	8.90	14.60	2,790	2,870	20	80	100	C

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 3
STATEWIDE SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
32517	Pharmacists	1	30.40	34.10	28.50	39.70	1,370	1,560	40	40	80	C
32518	Pharmacy Technicians	10	10.60	10.50	9.00	11.90	970	1,160	40	20	60	C
34023	Photographers	7	NA	NA	NA	NA	2,150	2,560	80	30	110	C
89914	Photographic Process Workers, Precision	10	8.60	7.60	NA	NA	950	1,160	40	40	80	C
32308	Physical Therapists	3	25.40	24.80	20.70	34.40	900	1,120	50	10	60	C
66017	Physical Therapy Assists/Aides	6	8.50	8.30	6.70	9.90	1,230	1,570	70	30	100	C
32102	Physicians	1	46.80	**	28.40	**	7,680	8,900	240	110	350	A
63014	Police Patrol Officers	9	14.80	14.20	NA	NA	2,390	2,960	110	60	170	B
57305	Postal Mail Carriers	11	16.00	16.40	14.20	17.90	2,180	2,350	30	60	90	C
92543	Printing Press Machine Operators & Tenders	10	12.10	12.10	9.10	14.70	1,210	1,380	30	30	60	C
63035	Private Detectives/Investigators	8	10.00	8.40	7.30	11.00	1,080	1,400	70	30	100	C
58008	Production, Planning, & Expediting Clerks	11	14.30	14.10	10.40	17.80	3,280	3,400	30	30	60	C
27108	Psychologists	3	21.80	20.80	17.70	24.80	2,910	3,360	90	40	130	B
34008	Public Relations Specialists	5	15.90	14.30	11.50	18.30	1,150	1,390	50	40	90	C
21308	Purchasing Agents, Excl Whl/Ret/Farm	5	18.70	17.30	13.40	22.80	1,970	2,140	40	40	80	C
32919	Radiologic Techs/Technologists	6	15.90	15.30	13.20	18.30	1,550	1,860	60	20	80	C
43011	Real Estate Appraisers	5	NA	NA	NA	NA	770	970	40	10	50	C
55305	Reception & Information Clerks	11	8.30	8.10	6.90	9.50	11,550	13,230	340	230	570	A
27311	Recreation Workers	5	8.10	7.30	6.00	9.70	1,820	2,130	60	50	110	C
53805	Reservation & Transportation Ticket Agents	11	12.30	9.60	8.00	14.80	5,860	6,450	120	130	250	B
27307	Residential Counselors	5	10.00	8.10	7.00	10.50	2,280	2,620	70	40	110	C
87808	Roofers	10	12.50	12.10	10.00	15.30	3,410	3,070	(70)	120	50	C
43023	Sales Agents, Advertising	10	15.70	13.70	11.00	17.60	1,670	2,000	70	40	110	C
43017	Sales Agents, Business Services	10	17.90	15.10	12.10	21.30	4,830	5,930	220	100	320	A
43014	Sales Agents, Financial Sales	5	20.50	16.30	13.40	20.70	2,160	2,610	90	10	100	C
43008	Sales Agents, Real Estate	7	19.90	15.00	9.20	22.10	6,040	6,750	140	110	250	B
49011	Sales Clerks, Retail	11	8.80	7.30	6.10	9.10	40,800	44,730	790	1550	2340	A

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 3
STATEWIDE SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
49008	Sales Reps, Non-Technical	10	19.00	16.60	12.10	24.40	13,210	14,310	220	320	540	B
49005	Sales Reps, Technical	10	24.70	21.80	15.90	31.50	4,590	5,060	90	110	200	B
55108	Secretaries, Excl Legal or Medical	10	10.60	10.50	8.30	12.50	23,670	24,690	200	350	550	B
55102	Secretaries, Legal	7	13.20	13.40	10.60	15.80	1,520	1,700	40	20	60	C
55105	Secretaries, Medical	7	10.80	10.90	9.50	12.00	1,520	1,750	40	20	60	C
63032	Sheriffs & Deputy Sheriffs	9	14.60	13.60	11.50	16.90	980	1,250	50	10	60	C
58028	Shipping & Receiving Clerks	11	10.80	9.80	7.80	13.60	7,570	7,980	80	120	200	B
27305	Social Workers, Excl Medical & Psychiatric	5	14.20	13.60	11.90	15.50	4,100	5,050	190	50	240	B
27302	Social Workers, Medical Psychiatric	3	15.50	15.60	10.60	19.30	2,590	3,200	120	30	150	B
27308	Social/Human Service Assistants	10	9.30	8.70	7.30	10.60	3,560	4,350	160	100	260	B
49021	Stock Clerks, Sales Floor	11	8.30	7.80	6.50	9.40	9,120	9,560	90	130	220	B
58023	Stock Clerks: Stockroom or Warehouse	11	9.50	8.80	7.30	11.00	7,370	8,010	130	100	230	B
97114	Taxi Drivers & Chauffeurs	11	7.70	7.70	6.90	8.50	1,170	1,420	50	20	70	C
31521	Teacher Aides, Paraprofessional	11	7.90	7.70	6.60	9.10	9,480	11,200	340	100	440	A
53905	Teacher Aides/Educational Assts	11	NA	NA	NA	NA	3,000	3,510	100	30	130	B
31314	Teachers & Instructors, VocED/Training	8	17.00	15.00	10.50	20.20	4,750	5,300	110	50	160	B
31218	Teachers, Art, Drama, Music, Postsecondary	2	21.40	19.80	16.80	25.10	950	1,080	30	20	50	C
31305	Teachers, Elementary School	5	15.90	15.90	12.10	19.30	9,950	10,700	150	200	350	B
31214	Teachers, English & Literature, Postsecondary	2	23.00	20.40	16.40	31.60	1,150	1,300	30	30	60	C
31304	Teachers, Kindergarten	5	7.41	6.65	5.83	8.44	1,390	1,500	20	30	50	C
31303	Teachers, Preschool	5	7.40	6.70	5.80	8.40	2,230	2,600	80	40	120	C
31308	Teachers, Secondary School	5	16.10	16.10	12.30	19.50	11,620	13,090	290	350	640	A
31311	Teachers, Special Education	5	16.30	16.60	13.00	19.30	2,470	2,920	90	10	100	C
49026	Telemarketers, Sales Related Workers	10	7.90	7.70	7.10	8.30	24,070	34,150	2020	710	2730	A
85953	Tire Repairers & Changers	11	7.70	7.60	6.70	8.50	1,250	1,320	10	70	80	C
43021	Travel Agents	7	10.70	10.60	8.70	12.30	1,470	1,750	60	30	90	C
97102	Truck Drivers, Heavy	11	14.70	13.90	11.20	17.50	23,950	26,930	600	310	910	A

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 3
STATEWIDE SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					Grade
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			
					From	To	2000	2005	Growth	Replace	Total	
97105	Truck Drivers, Light	11	9.60	8.90	6.90	11.30	13,480	15,610	420	180	600	A
89508	Upholsterers	9	11.70	12.50	9.70	14.00	1,280	1,520	50	20	70	C
68021	Ushers, Lobby Attendants, Ticket Takers	11	6.60	6.30	5.70	7.40	850	1,040	40	20	60	C
65008	Waiters & Waitresses	11	6.00	5.80	5.60	6.30	14,880	16,080	240	890	1130	A
95002	Water & Waste Treatment Plant Operators	9	NA	NA	NA	NA	1,070	1,220	30	20	50	C
93914	Welders & Cutters	9	13.10	12.20	10.50	14.80	3,630	3,810	40	80	120	C
34002	Writers & Editors	5	16.30	13.50	11.80	20.00	3,000	3,740	150	80	230	B

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

IV. JOB OUTLOOK IN UTAH'S SERVICE DELIVERY AREAS

IV. JOB OUTLOOK IN UTAH'S SERVICE DELIVERY AREAS

Utah contains nine sub-state planning areas denoted as Service Delivery Areas (SDAs). Although many of these SDAs have ties with other areas, each has its own unique economy and job market. The job outlook for each one of the nine SDAs is addressed in this section. As each SDA's economy differs, so does the level of employment and the magnitude of growth. Most of the current and new job market activity will occur along the 100-mile strip of the State called the "Wasatch Front Corridor," that area from Weber County on the north through Utah County to the south. Outside the "corridor" the SDAs will experience differing rates of growth; no SDA, however, is expected to actually feel a net decline in total employment.

The SDAs will be addressed separately, starting with the northernmost Bear River SDA. Each SDA's section

contains two summary data tables (industry and occupation) and a detailed Labor Demand Table presenting the "occupations in demand" for the area are provided. Refer to the Table of Contents to locate the SDA of interest. Also refer to Appendix A for a map depicting the physical location of the SDA, and Appendix B for detailed industry employment projections for your area (SDA) of interest. The narrative, charts, and tables were designed and prepared specifically for the Department of Workforce Services, Higher Education, and Applied Technology Education planners and administrators across the State. A great volume of information is provided in the Labor Demand tables — so much so, that the reader should review the "Description of the Labor Demand and Supply Table" in the previous Statewide section to get acquainted with, and better understand, the information in each of the table's columns.

BEAR RIVER SERVICE DELIVERY AREA

(Box Elder, Cache, and Rich Counties)

TABLE 4
BEAR RIVER SERVICE DELIVERY AREA
EMPLOYMENT PROJECTIONS BY MAJOR INDUSTRY
2000-2005

Industry	Employment		New Jobs 2000-2005	Annual Growth Rate
	2000	2005		
Total Employment	82,120	92,170	10,050	2.4
Mining	30	40	10	6.7
Construction	3,410	3,170	(240)	-1.4
Manufacturing	20,080	21,510	1,430	1.4
Transportation/Comm/Utilities	1,630	1,840	210	2.6
Trade	11,800	13,080	1,280	2.2
Finance/Insurance/Real Estate	1,410	1,550	140	2.0
Services*	20,320	24,220	3,900	3.8
Federal Government	520	550	30	1.2
State Government	1,310	1,470	160	2.4
Local Government	2,010	2,320	310	3.1
Agriculture	4,010	3,980	(30)	-0.1
Self-Employed	15,590	18,440	2,850	3.7

* State Education and Local School District employment is included in Educational Services, a sub-industry of Services.

Source: Utah Department of Workforce Services, Workforce Information, and the Governor's Office of Planning and Budget, Demographic and Economic Analysis, January 2000.

TABLE 5
BEAR RIVER SERVICE DELIVERY AREA
EMPLOYMENT AND JOB OPENINGS SUMMARY
BY MAJOR OCCUPATIONAL CATEGORY
2000-2005

Occupational Category	Employment		<u>Annual Average Job Openings</u>		
	2000	2005	Total	Due to Growth	Due to Replacement
Total - All Categories	82,120	92,170	3,930	1,960	1,970
Managerial & Administrative	5,820	6,580	240	140	100
Professional & Paraprofessional	14,950	17,840	840	570	270
Technical	3,280	3,810	180	110	70
Sales & Related	8,460	9,620	500	230	270
Clerical & Administrative Support	9,830	10,910	400	200	200
Service	8,590	9,820	540	240	300
Agriculture, Forestry, & Fishing	5,090	5,200	180	20	160
Production, Operating, & Maintenance	26,100	28,390	1,050	450	600

Source: Utah Department of Workforce Services, Workforce Information, January 2000.

TABLE 6
BEAR RIVER SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
21114	Accountants & Auditors	5	\$23.70	\$22.50	\$15.50	\$34.30	570	650	10	10	20	B
55338	Accounting & Bookkeeping Clerks	10	9.50	9.10	7.30	11.00	900	920	10	20	30	C
53123	Adjustment Clerks	11	NA	NA	NA	NA	450	520	10	0	10	C
34035	Artists & Commercial Artists	4	16.60	17.20	10.50	20.70	330	420	20	10	30	B
85305	Automotive Body & Rel Repairers	9	11.30	9.80	9.00	14.20	200	230	10	0	10	C
85302	Automotive Mechns/Service Techns	7	11.50	10.10	7.20	15.40	480	560	20	10	30	B
53102	Bank Tellers	11	8.60	8.30	7.10	9.80	230	240	0	10	10	C
65005	Bartenders	11	5.60	5.80	5.50	6.00	190	230	10	10	20	C
87102	Carpenters	9	12.00	11.70	9.20	14.60	950	970	10	30	40	C
49023	Cashiers	11	6.70	6.20	5.90	7.60	1,680	1,930	50	90	140	A
68038	Child Care Workers	11	NA	NA	NA	NA	410	510	20	0	20	B
25105	Computer Programmers	5	23.90	22.30	15.40	34.10	290	330	10	10	20	C
25104	Computer Support Specialists	6	17.83	16.21	13.64	20.36	310	440	30	0	30	B
25102	Computer Systems Analysts	5	NA	NA	NA	NA	220	330	20	0	20	C
65032	Cooks, Fast Food	11	6.60	6.40	5.80	7.70	380	410	10	10	20	C
65028	Cooks, Institution/Cafeteria	9	8.40	8.30	6.80	9.80	260	270	0	10	10	C
65026	Cooks, Restaurant	9	7.80	7.70	6.20	9.20	400	450	10	10	20	B
31514	Counselors	3	14.30	14.70	12.50	16.00	260	290	10	0	10	C
49017	Counter & Rental Clerks	11	6.40	6.10	5.80	7.00	230	280	10	10	20	B
65017	Counter Attendants, Lunchroom or Cafeteria	11	6.00	5.90	5.60	6.40	220	240	0	30	30	C
66002	Dental Assistants	10	8.90	8.30	7.20	9.80	160	210	10	0	10	C
34038	Designers, Ex Interior	5	9.70	8.20	7.40	11.00	1,330	1,680	70	20	90	A
85311	Diesel Engine Mechanics	9	NA	NA	NA	NA	260	300	10	0	10	C
15005	Education Administrators	4	33.60	36.70	30.30	43.10	350	400	10	10	20	C
93905	Electrical/Electronic Assemblers	11	NA	NA	NA	NA	460	490	10	10	20	C
22126	Engineers, Electrical & Electronics	5	26.50	25.30	21.20	35.70	180	230	10	0	10	C
22135	Engineers, Mechanical	5	28.60	31.20	24.70	38.00	250	280	10	0	10	C

Wages for this table represent Box Elder and Cache counties.

**Value greater than \$60.00 per hour.

Source: Utah Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

TABLE 6
BEAR RIVER SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
71005	Farm Managers	4	NA	NA	NA	NA	340	360	0	10	10	C
74002	Farm Workers, Ex Agri Services	11	NA	NA	NA	NA	3,240	3,200	(10)	110	100	B
65041	Fast Food Workers	11	6.40	6.20	5.70	7.20	530	560	10	30	40	C
55321	File Clerks	11	NA	NA	NA	NA	170	200	10	0	10	C
81005	First Line Supervisors, Construction/Mining	8	17.20	15.90	13.60	21.10	390	420	10	10	20	C
41002	First Line Supervisors, Marketing & Sales	8	14.40	12.80	9.50	17.30	2,000	2,310	60	20	80	A
51002	First Line Supervisors, Office/Admin Support	8	15.70	13.60	11.10	18.00	530	590	10	10	20	B
81008	First Line Supervisors, Production	8	15.10	11.30	9.90	17.60	1,580	1,700	30	40	70	B
65038	Food Preparation Workers	11	6.40	6.10	5.70	7.30	420	460	10	20	30	C
68005	Hairdressrs/Hairstylsts/Cosmtgts	7	7.70	7.60	6.80	8.40	560	710	30	10	40	A
98902	Hand Packers & Packagers	11	8.10	8.10	6.10	10.20	820	950	30	20	50	A
98312	Helpers, Carpenters & Related	11	7.90	7.70	7.10	8.40	360	340	(10)	20	10	C
66011	Home Health Aides	11	7.80	7.70	7.10	8.40	130	170	10	0	10	C
53808	Hotel/Motel/Resort Desk Clerks	11	5.90	6.10	5.60	6.50	150	180	10	0	10	C
85110	Industrial Machinery Mechanics	9	13.30	12.70	10.90	15.30	260	290	10	0	10	C
83005	Inspecters, Testers, & Graders, Production	8	14.30	13.20	8.80	18.20	390	390	0	10	10	C
31321	Instructors/Coaches, Sports/Phy	10	12.10	9.60	7.70	14.80	400	500	20	0	20	B
55332	Interview Clks, Ex Personnel/Soc	11	NA	NA	NA	NA	490	590	20	20	40	B
67005	Janitors & Cleaners	11	9.00	8.40	6.60	11.10	1,270	1,380	20	30	50	B
79041	Laborers, Landscpng/Groundskpng	11	7.90	7.20	6.00	9.20	910	970	10	30	40	B
28108	Lawyers	1	31.90	31.20	22.80	41.90	170	210	10	0	10	C
89108	Machinists	9	16.30	16.50	12.20	20.80	270	300	10	0	10	C
67002	Maids & Housekeeping Cleaners	11	6.40	6.40	5.80	7.30	390	430	10	10	20	C
57302	Mail Clks, Ex Mail Mach/Post Srv	11	NA	NA	NA	NA	290	360	10	10	20	B
85132	Maintenance Repairers, Gen Util	9	14.00	13.10	10.30	16.00	700	740	10	20	30	B
13011	Managers, Adver/Mrkt/Promo/PR/Sales	4	24.00	21.60	15.20	35.30	240	290	10	0	10	C
13017	Managers, Engr/Nat Sci/Comp/Info Sys	4	35.70	38.40	29.30	48.70	290	350	10	10	20	C

Wages for this table represent Box Elder and Cache counties.

**Value greater then \$60.00 per hour.

Source: Utah Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

TABLE 6
BEAR RIVER SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
15026	Managers, Food Service & Lodging	8	12.10	9.20	7.30	14.30	600	720	30	10	40	A
19005	Managers, General & Top Execs	4	25.20	20.80	11.90	39.60	1,210	1,320	20	20	40	B
93938	Meat/Poultry/Fish Cutters, Hand	11	NA	NA	NA	NA	280	340	10	10	20	C
32502	Nurses, Registered	6	17.80	17.70	15.80	20.10	580	730	30	10	40	A
66008	Nursing Aides/Orderlies/Attends	11	7.70	7.70	7.20	8.20	460	570	20	10	30	B
55347	Office Clerks, General	11	9.00	8.40	6.60	11.00	930	1,060	30	20	50	A
85926	Office Mach/Cash Register Servers	9	NA	NA	NA	NA	580	720	30	10	40	A
92974	Packaging/Fillng Mach Oprs/Tndrs	10	NA	NA	NA	NA	620	690	10	20	30	B
32102	Physicians	1	48.70	**	39.10	**	210	240	10	0	10	C
27108	Psychologists	3	13.10	13.00	9.20	16.90	200	230	10	0	10	C
55305	Reception & Information Clerks	11	8.50	8.20	6.90	9.60	450	520	10	10	20	B
87808	Roofers	10	NA	NA	NA	NA	390	380	(0)	10	10	C
49011	Sales Clerks, Retail	11	7.80	6.60	6.00	8.50	2,330	2,680	70	90	160	A
49008	Sales Representatives, Non Technical	10	16.70	15.50	11.90	20.10	360	400	10	10	20	C
55108	Secretaries, Ex Legal or Medical	7	10.30	10.30	8.10	12.10	1,940	2,050	20	30	50	B
92721	Sewing Mach Opers, Non-Garment	10	NA	NA	NA	NA	220	250	10	0	10	C
58028	Shipping & Receiving Clerks	11	9.70	8.60	6.90	11.10	390	440	10	10	20	C
89802	Slaughterers & Meat Packers	10	NA	NA	NA	NA	370	410	10	10	20	C
27305	Social Workers, Ex Med/Psychtric	5	13.60	13.30	11.90	14.90	240	300	10	0	10	C
27308	Social/Human Service Assistants	10	7.50	7.10	5.80	8.50	230	300	10	10	20	B
49021	Stock Clerks, Sales Floor	11	7.80	7.40	6.10	8.90	420	460	10	10	20	C
97114	Taxi Drivers & Chauffeurs	11	NA	NA	NA	NA	170	200	10	0	10	C
31521	Teacher Aides, Paraprofessional	11	6.30	6.20	5.70	6.70	770	940	30	10	40	A
31305	Teachers, Elementary School	5	11.20	6.60	5.90	17.30	610	670	10	10	20	B
31304	Teachers, Kindergarten	5	NA	NA	NA	NA	330	360	10	0	10	C
31308	Teachers, Secondary School	5	12.80	13.00	6.50	17.20	1,490	1,720	50	50	100	A
31314	Teachers/ Instructors, VocED/Tr	8	NA	NA	NA	NA	510	580	10	10	20	C

Wages for this table represent Box Elder and Cache counties.

**Value greater then \$60.00 per hour.

Source: Utah Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

TABLE 6
BEAR RIVER SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
39005	Traffic Technicians	10	NA	NA	NA	NA	190	210	0	10	10	C
97102	Truck Drivers, Heavy	11	14.30	14.10	11.20	16.90	1,990	2,290	60	30	90	A
97105	Truck Drivers, Light	11	9.90	8.30	6.00	11.30	550	640	20	10	30	B
89508	Upholsterers	9	NA	NA	NA	NA	560	640	20	10	30	B
65008	Waiters & Waitresses	11	5.80	5.80	5.50	6.10	860	940	20	50	70	B
93914	Welders & Cutters	9	18.80	14.70	9.60	31.20	330	360	10	10	20	C
34002	Writers & Editors	5	12.70	11.30	8.50	15.10	240	320	20	0	20	B

Wages for this table represent Box Elder and Cache counties.

**Value greater than \$60.00 per hour.

Source: Utah Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

WEBER - MORGAN SERVICE DELIVERY AREA

(Weber and Morgan Counties)

TABLE 7
WEBER-MORGAN SERVICE DELIVERY AREA
EMPLOYMENT PROJECTIONS BY MAJOR INDUSTRY
2000-2005

Industry	Employment		New Jobs 2000-2005	Annual Growth Rate
	2000	2005		
Total Employment	114,780	127,800	13,020	2.3
Mining	10	10	0	0.0
Construction	6,160	4,820	(1,340)	-4.4
Manufacturing	14,390	15,010	620	0.9
Transportation/Comm/Utilities	2,520	2,790	270	2.1
Trade	20,850	22,580	1,730	1.7
Finance/Insurance/Real Estate	3,430	3,760	330	1.9
Services*	33,680	40,300	6,620	3.9
Federal Government	5,760	6,190	430	1.5
State Government	1,570	1,750	180	2.3
Local Government	3,100	3,550	450	2.9
Agriculture	2,190	2,250	60	0.5
Self-Employed	21,120	24,790	3,670	3.5

* State Education and Local School District employment is included in Educational Services, a sub-industry of Services.

Source: Utah Department of Workforce Services, Workforce Information, and the Governor's Office of Planning and Budget, Demographic and Economic Analysis, January 2000.

TABLE 8
WEBER MORGAN SERVICE DELIVERY AREA
EMPLOYMENT AND JOB OPENINGS SUMMARY
BY MAJOR OCCUPATIONAL CATEGORY
2000-2005

Occupational Category	<u>Employment</u>		<u>Annual Average Job Openings</u>		
	2000	2005	Total	Due to Growth	Due to Replacement
Total - All Categories	114,780	127,800	5,350	2,600	2,750
Managerial & Administrative	7,430	8,250	280	160	120
Professional & Paraprofessional	23,370	27,150	1,140	750	390
Technical	3,660	4,500	240	170	70
Sales & Related	18,470	21,730	1,230	650	580
Clerical & Administrative Support	16,550	17,920	610	280	330
Service	13,840	15,710	850	370	480
Agriculture, Forestry, & Fishing	3,320	3,550	150	50	100
Production, Operating, & Maintenance	28,140	28,990	850	170	680

Source: Utah Department of Workforce Services, Workforce Information, January 2000.

TABLE 9
WEBER MORGAN SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
21114	Accountants & Auditors	5	\$18.20	\$15.60	\$13.30	\$20.60	3,060	3,270	40	50	90	A
55338	Accounting & Bookkeeping Clerks	10	10.50	10.10	8.50	11.80	1,220	1,250	10	20	30	C
28105	Adjudicators & Hearing Officers	4	NA	NA	NA	NA	580	670	20	10	30	B
53123	Adjustment Clerks	11	9.80	9.50	8.10	10.80	760	900	30	0	30	B
34035	Artists & Commercial Artists	4	16.30	14.50	12.50	18.80	220	260	10	0	10	C
85302	Automotive Mechanics/Service Techs	7	13.30	12.90	9.50	16.20	720	810	20	20	40	B
89805	Bakers, Manufacturing	10	12.20	13.40	9.70	14.90	290	330	10	0	10	C
53102	Bank Tellers	11	8.00	7.90	7.00	8.80	390	410	0	20	20	C
65005	Bartenders	11	6.70	6.30	5.70	7.60	850	940	20	30	50	B
53508	Bill & Account Collectors	11	9.80	9.60	7.90	11.00	420	520	20	10	30	B
97108	Bus Drviers, Transit/Intercity	10	12.50	13.60	10.10	15.00	370	420	10	10	20	C
49023	Cashiers	11	7.60	7.40	6.20	8.70	2,990	3,320	70	170	240	A
68038	Child Care Workers	11	6.80	6.70	5.80	7.90	1,120	1,400	60	10	70	A
98905	Cleaners of Vehicles/Equipment	11	7.60	7.30	6.10	8.50	430	500	10	10	20	B
25105	Computer Programmers	5	22.80	21.70	17.40	29.10	190	220	10	0	10	C
25104	Computer Support Specialists	6	16.10	15.60	12.10	19.70	450	750	60	0	60	B
25102	Computer Systems Analysts	5	23.40	23.10	18.10	31.90	500	660	30	0	30	B
65032	Cooks, Fast Food	11	6.60	6.20	5.70	7.60	230	250	0	10	10	C
65028	Cooks, Institution/Cafeteria	9	8.70	8.40	7.00	10.00	270	280	0	10	10	C
65026	Cooks, Restaurant	9	8.00	7.80	6.70	8.90	930	1,030	20	30	50	B
65035	Cooks, Short Order	11	6.40	6.40	5.70	7.40	150	190	10	0	10	C
68005	Cosmetologists & Hairdressrs	7	7.70	7.00	5.90	9.00	880	1,060	40	20	60	A
31514	Counselors	3	14.60	13.30	10.90	17.20	320	360	10	10	20	C
49017	Counter & Rental Clerks	11	8.30	7.70	6.40	9.10	540	650	20	30	50	B
65017	Counter Attendants/Lunchroom/Cafeteria	11	6.80	6.90	6.00	7.80	110	120	0	20	20	C
66002	Dental Assistants	10	9.60	9.40	7.70	11.60	450	560	20	10	30	B
32908	Dental Hygienists	6	25.40	26.00	21.40	35.00	170	210	10	0	10	C

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 9
WEBER MORGAN SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
32105	Dentists	1	43.10	50.20	33.90	**	250	300	10	0	10	C
34038	Designers, Excl Interior	5	13.00	10.50	7.60	16.50	550	670	20	10	30	B
65014	Dining Room/Cafe Attendants Bar Helpers	11	6.90	6.40	5.70	7.90	290	300	0	10	10	C
22514	Drafters	7	13.60	12.90	10.70	16.00	310	330	0	10	10	C
15005	Education Administrators	4	26.00	27.40	19.70	36.90	320	350	10	10	20	C
32508	Emergency Medical Techns/Paramds	7	9.60	9.60	8.30	10.40	170	220	10	0	10	C
22126	Engineers, Electrical & Electronic	5	28.30	30.20	23.30	37.60	680	750	20	10	30	B
74002	Farm Workers, Ex Agri Services	11	NA	NA	NA	NA	1,470	1,440	(10)	50	40	C
65041	Fast Food Workers	11	6.40	6.00	5.60	7.00	900	960	10	60	70	B
55321	File Clerks	11	8.40	8.00	6.50	9.70	190	210	0	10	10	C
41002	First Line Supervisors, Marketing/Sales	8	16.40	13.50	10.40	19.80	2,370	2,630	50	30	80	A
81002	First Line Supervisors, Mechanics & Repairers	8	19.40	18.00	13.80	22.80	430	460	10	10	20	C
51002	First Line Supervisors, Office/Admin Support	8	15.30	13.50	11.10	18.20	960	1,090	30	20	50	B
81008	First Line Supervisors,Construction/Mining	8	17.30	15.80	12.70	20.40	450	480	10	10	20	C
65038	Food Preparation Workers	11	6.90	6.50	5.80	8.00	780	840	10	50	60	B
98902	Hand Packers & Packagers	11	7.00	6.60	5.80	8.00	1,490	1,860	70	40	110	A
65002	Hosts/Hostesses: Restaurant/Lounge/Coffee	11	6.70	6.50	5.80	7.70	240	270	10	0	10	C
21511	Human Resource/Training/Labor Rel Specs	5	NA	NA	NA	NA	290	330	10	10	20	C
31321	Instructors/Coaches, Sports & Physical Traininr	10	NA	NA	NA	NA	250	290	10	0	10	C
43002	Insurance Sales Agents	5	18.20	14.80	8.90	26.30	220	250	10	0	10	C
55332	Interview Clerks, Excl Personnel	11	9.40	9.30	7.90	10.50	260	320	10	10	20	C
67005	Janitors & Cleaners	11	7.70	7.30	6.20	8.60	1,440	1,550	20	30	50	B
79041	Laborers, Landscaping/Groundskeepng	11	8.20	7.80	6.70	9.20	1,260	1,470	40	40	80	A
28108	Lawyers	1	36.30	35.80	23.70	56.10	370	440	10	10	20	C
32505	Licensed Practical/Voc Nurses	7	13.10	12.70	11.30	14.10	230	270	10	0	10	C
21108	Loan Counselors & Officers	5	17.60	14.20	10.90	21.50	470	520	10	10	20	C
89108	Machinists	9	14.00	14.10	11.10	17.10	600	640	10	10	20	C

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 9
WEBER MORGAN SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
67002	Maids & Housekeeping Cleaners	11	6.90	6.80	5.90	8.00	470	560	20	10	30	B
85132	Maintenance Repairers, General Utility	9	11.60	10.90	8.40	13.90	770	840	10	20	30	B
21905	Management Analysts	4	23.60	22.50	18.30	31.10	880	1,180	60	10	70	A
13014	Managers, Administrative Services	4	21.60	19.80	14.80	26.10	330	380	10	10	20	C
13017	Managers, Engineering, Nat Sci, Info Sys	4	32.50	34.20	26.40	42.00	310	350	10	10	20	C
13002	Managers, Financial	4	25.60	23.00	16.80	35.80	410	440	10	0	10	C
15026	Managers, Food Service & Lodging	8	13.40	12.30	8.60	15.70	650	770	20	10	30	B
19005	Managers, General & Top Execs	4	29.10	26.20	17.30	42.30	1,770	1,900	30	20	50	B
15008	Managers, Medical/Health Service	4	25.90	24.50	18.50	35.40	190	250	10	0	10	C
15011	Managers, Property & Real Estate	5	17.00	15.30	8.60	21.60	210	250	10	0	10	C
98102	Mechanic & Repairer Helpers	11	9.10	8.60	6.80	10.10	220	230	0	10	10	C
32911	Medical Records/Health Info Techns	6	10.10	9.00	7.70	12.10	160	230	10	10	20	C
66005	Medical Assistants	10	9.80	9.40	7.70	11.50	400	530	30	10	40	B
91714	Metal Fabricators, Structural Met	10	10.80	10.70	8.60	12.70	740	790	10	20	30	C
55347	Office Clerks, General	11	9.70	9.00	7.30	10.90	1,430	1,560	30	40	70	B
92974	Packaging/Filling Machine Operators/Tenders	10	8.90	8.30	7.10	10.30	260	290	10	0	10	C
32308	Physical Therapists	3	25.60	25.00	20.80	34.60	190	230	10	0	10	C
66017	Physical Therapy Assistants/Aides	6	8.80	8.70	7.00	10.20	200	250	10	10	20	C
32102	Physicians	1	NA	NA	NA	NA	640	750	20	10	30	B
57305	Postal Mail Carriers	11	NA	NA	NA	NA	240	260	10	0	10	C
27108	Psychologists	3	22.50	22.00	18.30	25.60	350	410	10	10	20	C
32919	Radiologic Techicians/Technologists	6	15.90	15.30	13.30	18.00	180	220	10	0	10	C
55305	Reception & Information Clerks	11	8.40	8.20	7.00	9.70	1,210	1,400	40	20	60	A
32502	Registered Nurses	6	20.90	20.30	17.30	23.50	1,450	1,780	70	20	90	A
43017	Sales Agents, Business Services	10	18.40	15.30	13.30	20.50	290	360	20	0	20	C
43008	Sales Agents, Real Estate	7	20.60	14.50	8.80	23.70	370	400	10	0	10	C
49011	Sales Clerks, Retail	11	9.00	7.50	6.20	9.30	3,390	3,720	70	130	200	A

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 9
WEBER MORGAN SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
49008	Sales Reps, Non-Technical	10	19.20	16.80	12.20	25.00	680	740	10	20	30	B
55108	Secretaries	10	11.00	10.90	8.90	12.90	1,730	1,830	20	30	50	B
55105	Secretaries, Medical	7	11.50	11.20	10.30	12.50	400	460	10	10	20	C
97805	Service Station Attendants	11	7.30	7.30	6.00	8.30	170	230	10	10	20	C
58028	Shipping & Receiving Clerks	11	11.00	10.20	8.10	13.90	750	800	10	10	20	C
27305	Social Workers, Ex Med/Psychtric	5	14.30	13.60	11.80	15.60	550	690	30	0	30	B
27302	Social Workers, Med/Psychiatric	3	16.80	16.80	13.40	20.10	340	430	20	0	20	C
27308	Social/Human Service Assistants	10	9.90	9.20	7.70	11.20	480	580	20	10	30	B
32314	Speech Pathologts/Audiologists	3	21.50	20.00	17.30	28.60	230	280	10	0	10	C
49021	Stock Clerks, Sales Floor	11	8.60	8.00	6.80	9.60	1,560	1,640	20	20	40	B
58023	Stock Clerks: Stockroom or Warehouse	11	9.60	9.00	7.50	11.10	520	570	10	10	20	C
31521	Teacher Aides, Paraprofessional	11	45.50	**	21.30	**	960	1,140	40	10	50	A
53905	Teacher Aides/Educational Assts	11	8.60	9.10	7.00	9.80	240	280	10	0	10	C
31305	Teachers, Elementary School	5	15.90	15.70	12.10	19.30	1,110	1,210	20	20	40	B
31308	Teachers, Secondary School	5	16.60	16.50	12.60	20.20	1,270	1,440	40	40	80	A
31311	Teachers, Special Education	5	16.30	16.90	13.00	19.40	440	520	20	0	20	C
31314	Teachers/ Instructors, VocED/Tr	8	18.00	16.60	11.00	21.00	450	510	10	10	20	C
49026	Telemarketers, Sales Related Workers	10	7.80	7.70	7.10	8.30	5,270	7,120	370	160	530	A
85953	Tire Repairers & Changers	11	7.80	7.60	6.80	8.60	220	230	0	10	10	C
97102	Truck Drivers, Heavy	11	14.80	14.00	11.20	17.70	1,090	1,170	20	10	30	B
97105	Truck Drivers, Light	11	9.50	8.80	6.90	11.30	1,100	1,270	40	10	50	B
65008	Waiters & Waitresses	11	6.10	5.90	5.60	6.40	1,710	1,860	30	100	130	A
95002	Water & Waste Treat Plant Operators	9	NA	NA	NA	NA	320	370	10	10	20	C
93914	Welders & Cutters	9	12.90	12.30	10.70	14.60	490	510	0	10	10	C

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater then \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

DAVIS COUNTY SERVICE DELIVERY AREA

TABLE 10
DAVIS COUNTY SERVICE DELIVERY AREA
EMPLOYMENT PROJECTIONS BY MAJOR INDUSTRY
2000-2005

Industry	Employment		New Jobs 2000-2005	Annual Growth Rate
	2000	2005		
Total Employment	114,520	127,850	13,330	2.3
Mining	90	70	(20)	-4.4
Construction	7,190	5,700	(1,490)	-4.1
Manufacturing	10,970	11,470	500	0.9
Transportation/Comm/Utilities	2,900	3,290	390	2.7
Trade	21,330	23,240	1,910	1.8
Finance/Insurance/Real Estate	3,570	3,960	390	2.2
Services*	24,680	29,670	4,990	4.0
Federal Government	11,700	12,730	1,030	1.8
State Government	490	570	80	3.3
Local Government	2,990	3,450	460	3.1
Agriculture	1,570	1,690	120	1.5
Self-Employed	27,040	32,010	4,970	3.7

* State Education and Local School District employment is included in Educational Services, a sub-industry of Services.

Source: Utah Department of Workforce Services, Workforce Information, and the Governor's Office of Planning and Budget, Demographic and Economic Analysis, January 2000.

TABLE 11
DAVIS COUNTY SERVICE DELIVERY AREA
EMPLOYMENT AND JOB OPENINGS SUMMARY
BY MAJOR OCCUPATIONAL CATEGORY
2000-2005

Occupational Category	Employment		<u>Annual Average Job Openings</u>		
	2000	2005	Total	Due to Growth	Due to Replacement
Total - All Categories	114,520	127,850	2,660	2,750	5,410
Managerial & Administrative	7,620	8,710	220	120	340
Professional & Paraprofessional	17,220	20,950	740	290	1,030
Technical	5,700	6,680	200	120	320
Sales & Related	13,780	15,740	390	460	850
Clerical & Administrative Support	15,660	17,050	280	310	590
Service	17,110	20,030	580	560	1,140
Agriculture, Forestry, & Fishing	2,460	2,770	60	80	140
Production, Operating, & Maintenance	34,970	35,920	190	810	1,000

Source: Utah Department of Workforce Services, Workforce Information, January 2000.

TABLE 12
DAVIS COUNTY SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
21114	Accountants & Auditors	5	\$18.20	\$15.60	\$13.30	\$20.60	690	810	20	10	30	B
55338	Accounting & Bookkeeping Clerks	10	10.50	10.10	8.50	11.80	1,520	1,550	10	30	40	C
53123	Adjustment Clerks	11	9.80	9.50	8.10	10.80	1,570	1,840	50	10	60	B
85323	Aircraft Mechanics	7	19.90	17.70	16.00	19.70	920	1,010	20	20	40	B
68014	Amusement & Recreation Attendants	11	NA	NA	NA	NA	1,110	1,370	50	30	80	A
85305	Automotive Body & Rel Repairers	9	13.70	12.00	6.90	16.60	270	310	10	10	20	C
85302	Automotive Mechanics/Service Techicians	7	13.30	12.90	9.50	16.20	700	790	20	20	40	B
65021	Bakers, Bread & Pastry	10	8.70	8.20	7.10	10.30	250	280	10	10	20	C
89805	Bakers, Manufacturing	10	12.20	13.40	9.70	14.90	320	380	10	10	20	C
53102	Bank Tellers	11	8.00	7.90	7.00	8.80	670	720	10	30	40	B
68002	Barbers	7	NA	NA	NA	NA	330	390	10	10	20	C
97111	Bus Drivers, School	11	10.70	10.50	8.20	13.50	340	380	10	0	10	C
89311	Cabinetmakers & Bench Carpenters	9	11.10	10.80	8.50	13.20	340	370	10	0	10	C
49023	Cashiers	11	7.60	7.40	6.20	8.70	3,280	3,660	80	180	260	A
68038	Child Care Workers	11	6.80	6.70	5.80	7.90	2,510	3,200	140	20	160	A
98905	Cleaners of Vehicles/Equipment	11	7.60	7.30	6.10	8.50	270	330	10	10	20	C
25105	Computer Programmers	5	22.80	21.70	17.40	29.10	280	340	10	10	20	C
25104	Computer Support Specialists	6	16.10	15.60	12.10	19.70	350	550	40	0	40	B
25102	Computer Systems Analysts	5	23.40	23.10	18.10	31.90	610	850	50	0	50	B
65032	Cooks, Fast Food	11	6.60	6.20	5.70	7.60	300	330	10	10	20	C
65028	Cooks, Institution/Cafeteria	9	8.70	8.40	7.00	10.00	290	300	0	10	10	C
65026	Cooks, Restaurant	9	8.00	7.80	6.70	8.90	240	270	10	10	20	C
65035	Cooks, Short Order	11	6.40	6.40	5.70	7.40	490	580	20	20	40	B
63017	Correctional Officers	9	NA	NA	NA	NA	250	340	20	10	30	B
68005	Cosmetologists	7	7.70	7.00	5.90	9.00	1,140	1,460	60	30	90	A
31514	Counselors	3	14.60	13.30	10.90	17.20	290	330	10	10	20	C
49017	Counter & Rental Clerks	11	8.30	7.70	6.40	9.10	350	410	10	20	30	B

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

TABLE 12
DAVIS COUNTY SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
65017	Counter Attendants/Lunchrm/Cafeteria	11	6.80	6.90	6.00	7.80	180	200	10	20	30	C
66002	Dental Assistants	10	9.60	9.40	7.70	11.60	210	260	10	0	10	C
32105	Dentists	1	43.10	50.20	33.90	**	530	660	30	10	40	B
34038	Designers, Excl Interior	5	13.00	10.50	7.60	16.50	280	360	20	0	20	C
85311	Diesel Engine Mechanics	9	14.80	14.60	12.10	17.80	220	240	10	0	10	C
22514	Drafters	7	13.60	12.90	10.70	16.00	590	700	20	10	30	B
97117	Driver/Sales Workers	11	NA	NA	NA	NA	330	350	0	10	10	C
15005	Education Administrators	4	26.00	27.40	19.70	36.90	270	300	10	10	20	C
22505	Electrical & Electronic Technicians	6	17.10	16.60	12.60	20.40	450	460	0	10	10	C
85728	Electrical Installers & Repairers, Transps.	7	NA	NA	NA	NA	260	280	10	0	10	C
85717	Electronics Repairers, Comm or Ind Equip	7	17.10	17.60	12.60	20.70	600	620	0	20	20	C
32508	Emergency Medical Techns/Paramedicss	7	NA	NA	NA	NA	420	480	10	10	20	C
22127	Engineers, Computer	5	28.00	29.90	22.80	37.30	240	420	40	0	40	B
22126	Engineers, Electrical & Electronics	5	28.30	30.20	23.30	37.60	720	820	20	10	30	B
74002	Farm Workers, Ex Agri Services	11	NA	NA	NA	NA	870	870	0	30	30	C
65041	Fast Food Workers	11	6.40	6.00	5.60	7.00	1,600	1,700	20	100	120	B
55321	File Clerks	11	8.40	8.00	6.50	9.70	180	200	0	10	10	C
63008	Fire Fighters	9	NA	NA	NA	NA	290	320	10	0	10	C
41002	First Line Supervisors, Marketing/Sales	8	16.40	13.50	10.40	19.80	2,790	3,150	70	30	100	A
81002	First Line Supervisors: Mech & Repairers	8	19.40	18.00	13.80	22.80	480	520	10	10	20	C
51002	First Line Supervisors, Office & Admin Suppor	8	15.30	13.50	11.10	18.20	850	970	20	20	40	B
81008	First Line Supervisors, Production	8	17.30	15.80	12.70	20.40	510	560	10	10	20	C
81005	First Line Supervisors, Construction & Mining	8	20.20	19.50	15.90	23.30	1,160	1,060	(20)	30	10	C
65038	Food Preparation Workers	11	6.90	6.50	5.80	8.00	1,620	1,750	30	100	130	A
98902	Hand Packers & Packagers	11	7.00	6.60	5.80	8.00	830	920	20	20	40	B
98102	Helpers, Mechanic & Repairer	11	NA	NA	NA	NA	230	260	10	10	20	C
21511	Human Resource/Training/Labor Rel Specs	5	18.30	16.60	13.00	22.50	260	310	10	10	20	C

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

TABLE 12
DAVIS COUNTY SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
31517	Instructional Coordinators	5	18.80	16.30	13.40	23.50	160	220	10	0	10	C
31321	Instructors/Coaches, Sports/Physical	10	NA	NA	NA	NA	160	200	10	0	10	C
43002	Insurance Sales Agents	5	NA	NA	NA	NA	330	390	10	10	20	C
67005	Janitors & Cleaners	11	7.70	7.30	6.20	8.60	1,530	1,680	30	40	70	A
79041	Laborers, Landscaping & Groundskeeping	11	8.20	7.80	6.70	9.20	1,150	1,390	50	40	90	A
92726	Laundry/Drycleaning Machine Operators	10	8.80	8.10	6.80	9.50	200	230	10	0	10	C
28108	Lawyers	1	36.30	35.80	23.70	56.10	640	750	20	10	30	B
32505	Licensed Practical/Voc Nurses	7	13.10	12.70	11.30	14.10	290	340	10	10	20	C
89108	Machinists	9	14.00	14.10	11.10	17.10	760	810	10	10	20	C
67002	Maids & Housekeeping Cleaners	11	6.90	6.80	5.90	8.00	330	390	10	10	20	C
85132	Maintenance Repairers, Gen Util	9	11.60	10.90	8.40	13.90	990	1,140	30	20	50	A
21905	Management Analysts	4	23.60	22.50	18.30	31.10	1,050	1,460	80	10	90	A
15011	Managers, Property & Real Estate	5	17.00	15.30	8.60	21.60	300	380	20	0	20	C
13002	Managers, Financial	4	25.60	23.00	16.80	35.80	560	630	10	10	20	C
15026	Managers, Food Service & Lodging	8	13.40	12.30	8.60	15.70	1,120	1,360	50	20	70	A
19005	Managers, General & Top Execs	4	29.10	26.20	17.30	42.30	1,740	1,850	20	30	50	B
15032	Managers, Lawn Service	8	15.50	16.10	13.10	18.00	270	380	20	0	20	B
15008	Managers, Medical/Health Service	4	25.90	24.50	18.50	35.40	120	170	10	0	10	C
25323	Mathematical Technicians	6	NA	NA	NA	NA	450	550	20	10	30	B
22511	Mechanical Engineering Techns/Tehnls	6	19.10	19.40	15.60	22.30	350	370	0	10	10	C
66005	Medical Assistants	10	9.80	9.40	7.70	11.50	200	270	10	10	20	C
32502	Nurses, Registered	6	20.90	20.30	17.30	23.50	730	930	40	10	50	A
66008	Nursing Aides, Orderlies, Attendants	11	8.10	8.00	7.10	8.90	540	700	30	10	40	B
55347	Office Clerks, General	11	9.70	9.00	7.30	10.90	1,650	1,820	30	50	80	A
55323	Order Clerks	11	10.40	9.80	8.50	11.70	310	330	0	10	10	C
92974	Packaging/Fillng Machine Operators	10	8.90	8.30	7.10	10.30	330	360	10	10	20	C
87402	Painters & Paperhangers	10	11.80	10.90	9.20	13.40	1,370	1,360	0	40	40	C

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

TABLE 12
DAVIS COUNTY SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
34023	Photographers	7	NA	NA	NA	NA	250	320	10	0	10	C
32102	Physicians	1	45.50	**	21.30	**	470	560	20	10	30	B
63014	Police Patrol Officers	9	15.60	15.10	12.90	18.30	340	430	20	10	30	B
57305	Postal Mail Carriers	11	NA	NA	NA	NA	270	300	10	0	10	C
27108	Psychologists	3	22.50	22.00	18.30	25.60	200	250	10	0	10	C
21308	Purchasing Agents, Excl Whl/Ret/Farm	5	19.40	18.10	14.00	23.40	470	540	10	10	20	B
55305	Reception & Information Clerks	11	8.40	8.20	7.00	9.70	830	950	20	20	40	B
27311	Recreation Workers	5	NA	NA	NA	NA	210	250	10	0	10	C
43017	Sales Agents, Business Services	10	18.40	15.30	13.30	20.50	130	170	10	0	10	C
43008	Sales Agents, Real Estate	7	NA	NA	NA	NA	410	490	20	10	30	B
49011	Sales Clerks, Retail	11	9.00	7.50	6.20	9.30	3,240	3,570	70	120	190	A
49008	Sales Reps, Non-Technical	10	19.20	16.80	12.20	25.00	750	850	20	20	40	B
55108	Secretaries, Excl Legal or Medical	10	11.00	10.90	8.90	12.90	1,870	1,950	20	20	40	B
89132	Sheet Metal Workers	10	14.60	14.30	10.00	18.40	870	840	(10)	20	10	C
58028	Shipping & Receiving Clerks	11	11.00	10.20	8.10	13.90	610	650	10	10	20	C
27305	Social Workers, Excl Medical & Psychiatric	5	14.30	13.60	11.80	15.60	160	210	10	0	10	C
27302	Social/Human Service Assistants	3	16.80	16.80	13.40	20.10	130	180	10	0	10	C
27308	Social/Human Service Assistants	10	9.90	9.20	7.70	11.20	170	210	10	0	10	C
49021	Stock Clerks, Sales Floor	11	8.60	8.00	6.80	9.60	700	730	10	10	20	C
58023	Stock Clerks: Stockroom or Warehouse	11	9.60	9.00	7.50	11.10	860	890	10	10	20	C
31521	Teacher Aides, Paraprofessional	11	8.20	7.90	6.80	9.30	610	740	30	0	30	B
53905	Teacher Aides/Educational Assts	11	NA	NA	NA	NA	220	270	10	0	10	C
31305	Teachers, Elementary School	5	15.90	15.70	12.10	19.30	530	590	10	10	20	C
31308	Teachers, Secondary School	5	16.60	16.50	12.60	20.20	1,720	2,010	60	50	110	A
31311	Teachers, Special Education	5	16.30	16.90	13.00	19.40	290	350	10	0	10	C
31314	Teachers & Instructors, VocED/Training	8	18.00	16.60	11.00	21.00	860	1,010	30	10	40	B
49026	Telemarketers, Sales Related Workers	10	7.80	7.70	7.10	8.30	1,090	1,510	80	30	110	A

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

TABLE 12
DAVIS COUNTY SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
85953	Tire Repairers & Changers	11	7.80	7.60	6.80	8.60	230	250	0	10	10	C
97102	Truck Drivers, Heavy	11	14.80	14.00	11.20	17.70	2,380	2,780	80	30	110	A
97105	Truck Drivers, Light	11	9.50	8.80	6.90	11.30	1,100	1,260	30	10	40	B
65008	Waiters & Waitresses	11	6.10	5.90	5.60	6.40	890	970	20	50	70	B
93914	Welders & Cutters	9	12.90	12.30	10.70	14.60	620	680	10	20	30	C
34002	Writers & Editors	5	17.20	13.80	12.30	21.20	290	390	20	10	30	B

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

**WASATCH FRONT SOUTH
SERVICE DELIVERY AREA**
(Salt Lake and Tooele Counties)

TABLE 13
WASATCH FRONT SOUTH SERVICE DELIVERY AREA
EMPLOYMENT PROJECTIONS BY MAJOR INDUSTRY
2000-2005

Industry	Employment		New Jobs 2000-2005	Annual Growth Rate
	2000	2005		
Total Employment	665,830	732,690	66,860	2.0
Mining	2,740	2,690	(50)	-0.4
Construction	35,660	29,950	(5,710)	-3.2
Manufacturing	59,080	60,380	1,300	0.4
Transportation/Comm/Utilities	43,980	48,110	4,130	1.9
Trade	130,600	137,900	7,300	1.1
Finance/Insurance/Real Estate	40,870	44,000	3,130	1.5
Services*	192,380	228,830	36,450	3.8
Federal Government	10,620	10,550	(70)	-0.1
State Government	18,500	20,170	1,670	1.8
Local Government	14,370	16,100	1,730	2.4
Agriculture	4,090	4,590	500	2.4
Self-Employed	112,940	129,420	16,480	2.9

* State Education and Local School District employment is included in Educational Services, a sub-industry of Services.

Source: Utah Department of Workforce Services, Workforce Information, and the Governor's Office of Planning and Budget, Demographic and Economic Analysis, January 2000.

TABLE 14
WASATCH FRONT SOUTH SERVICE DELIVERY AREA
EMPLOYMENT AND JOB OPENINGS SUMMARY
BY MAJOR OCCUPATIONAL CATEGORY
2000-2005

Occupational Category	<u>Employment</u>		<u>Annual Average Job Openings</u>		
	2000	2005	Total	Due to Growth	Due to Replacement
Total - All Categories	665,830	732,690	29,270	13,390	15,880
Managerial & Administrative	51,390	56,980	1,910	1,120	790
Professional & Paraprofessional	117,870	137,110	5,950	3,850	2,100
Technical	26,170	31,150	1,570	1,000	570
Sales & Related	98,980	110,290	5,240	2,270	2,970
Clerical & Administrative Support	116,900	125,880	4,210	1,800	2,410
Service	80,180	89,670	4,810	1,900	2,910
Agriculture, Forestry, & Fishing	10,790	12,280	620	300	320
Production, Operating, & Maintenance	163,550	169,330	4,960	1,150	3,810

Source: Utah Department of Workforce Services, Workforce Information, January 2000.

TABLE 15
WASATCH FRONT SOUTH SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Codes 1/	Mean Wage	Median Wage	Middle Range Of Wage		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
21114	Accountants & Auditors	5	\$18.20	\$15.60	\$13.30	\$20.60	4,910	5,380	90	70	160	B
55338	Accounting & Bookkeeping Clerks	10	10.50	10.10	8.50	11.80	10,340	10,470	30	180	210	B
34056	Actors, Directors, Producers	9	8.90	6.30	5.70	8.80	1,370	1,740	80	30	110	B
53123	Adjustment Clerks	11	9.80	9.50	8.10	10.80	5,450	6,360	180	30	210	A
39002	Air Traffic Controllers	9	NA	NA	NA	NA	420	430	0	30	30	C
97702	Aircraft Pilots/Flight Engineers	5	NA	NA	NA	NA	1,300	1,450	30	20	50	C
68014	Amusement/Recreation Attendants	11	NA	NA	NA	NA	910	1,100	40	20	60	B
79017	Animal Caretakers, Ex Farm	11	NA	NA	NA	NA	1,280	1,610	70	20	90	B
22302	Architects, Ex Landscape/Naval	5	NA	NA	NA	NA	840	1,000	30	10	40	C
34035	Artists & Commercial Artists	4	16.30	14.50	12.50	18.80	2,680	3,310	130	50	180	A
85305	Automotive Body & Rel Repairers	9	13.70	12.00	6.90	16.60	1,440	1,640	40	40	80	B
85302	Automotive Mechanics/Service Techns	7	13.30	12.90	9.50	16.20	5,100	5,790	140	120	260	A
65021	Bakers, Bread & Pastry	10	8.70	8.20	7.10	10.30	990	1,070	20	30	50	C
53102	Bank Tellers	11	8.00	7.90	7.00	8.80	2,470	2,500	10	120	130	C
65005	Bartenders	11	6.70	6.30	5.70	7.60	1,400	1,420	0	60	60	C
53508	Bill & Account Collectors	11	9.80	9.60	7.90	11.00	2,740	3,140	80	70	150	B
55344	Billing/Cost/Rate Clerks	11	10.50	10.00	8.40	12.10	1,410	1,530	20	30	50	C
56002	Billing/Posting Clerks/Mach Oprs	11	8.70	8.70	7.40	10.10	1,010	1,050	10	20	30	C
24308	Biological Scientists	2	24.20	21.50	17.40	31.50	380	470	20	10	30	C
34028	Broadcast & Sound Technicians	7	NA	NA	NA	NA	500	560	10	30	40	C
43005	Brokers, Real Estate	8	NA	NA	NA	NA	1,470	1,680	40	30	70	B
97111	Bus Drivers, School	11	10.70	10.50	8.20	13.50	1,560	1,660	20	30	50	C
97108	Bus Drviers, Transit/Intercity	10	12.50	13.60	10.10	15.00	890	970	20	10	30	C
87102	Carpenters	9	14.10	14.20	11.70	16.50	9,430	8,620	(160)	250	90	C
49023	Cashiers	11	7.60	7.40	6.20	8.70	14,060	15,250	240	790	1030	A
68038	Child Care Workers	11	6.80	6.70	5.80	7.90	5,190	6,380	240	50	290	A
98905	Cleaners, Vehicles/Equipment	11	7.60	7.30	6.10	8.50	1,640	1,870	50	50	100	B

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 15
WASATCH FRONT SOUTH SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Codes 1/	Mean Wage	Median Wage	Middle Range Of Wage		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
25105	Computer Programmers	5	22.80	21.70	17.40	29.10	2,440	2,750	60	70	130	B
25104	Computer Support Specialists	6	16.10	15.60	12.10	19.70	3,180	4,930	350	10	360	B
25102	Computer Systems Analysts	5	23.40	23.10	18.10	31.90	2,600	3,840	250	10	260	B
65032	Cooks, Fast Food	11	6.60	6.20	5.70	7.60	2,150	2,270	30	60	90	B
65028	Cooks, Institution/Cafeteria	9	8.70	8.40	7.00	10.00	1,070	1,160	20	30	50	C
65026	Cooks, Restaurant	9	8.00	7.80	6.70	8.90	2,300	2,500	40	70	110	B
65035	Cooks, Short Order	11	6.40	6.40	5.70	7.40	1,520	1,640	20	50	70	C
63017	Correctional Officers	9	NA	NA	NA	NA	1,130	1,360	40	30	70	B
68005	Cosmetologists & Hairstylists	7	7.70	7.00	5.90	9.00	2,670	3,130	90	70	160	A
31514	Counselors	3	14.60	13.30	10.90	17.20	1,070	1,190	20	20	40	C
49017	Counter & Rental Clerks	11	8.30	7.70	6.40	9.10	3,080	3,530	90	150	240	A
65017	Counter Attendants/Lunchrm/Cafeteria	11	6.80	6.90	6.00	7.80	2,570	2,720	30	350	380	B
57311	Couriers & Messengers	11	8.00	7.90	7.00	8.90	620	690	10	20	30	C
55302	Court Reporters, Medical Trans, & Stenos	7	NA	NA	NA	NA	540	660	20	10	30	C
89505	Custom Tailors & Sewers	8	8.70	8.00	6.80	9.90	730	820	20	10	30	C
55335	Customer Service Reps, Utilities	11	12.60	10.30	8.20	18.00	1,290	1,360	10	30	40	C
56017	Data Entry Keyers, Excl Composing	10	8.80	8.40	7.40	10.10	2,040	2,230	40	10	50	C
66002	Dental Assistants	10	9.60	9.40	7.70	11.60	900	1,090	40	10	50	C
32105	Dentists	1	43.10	50.20	33.90	**	1,130	1,300	30	30	60	C
34038	Designers, Excl Interior	5	13.00	10.50	7.60	16.50	2,090	2,470	70	30	100	B
85311	Diesel Engine Mechanics	9	14.80	14.60	12.10	17.80	1,710	1,840	30	30	60	C
65014	Dining Room/Cafe Attendants Bar/Helpers	11	6.90	6.40	5.70	7.90	1,380	1,410	10	60	70	C
58005	Dispatchers, Ex Police/Fire/Ambl	10	11.80	10.60	9.50	13.00	1,020	1,090	20	10	30	C
22514	Drafters	7	13.60	12.90	10.70	16.00	1,540	1,640	20	40	60	C
97117	Driver/Sales Workers	11	8.10	7.10	6.00	8.70	2,280	2,340	10	40	50	C
15005	Education Administrators	4	26.00	27.40	19.70	36.90	1,250	1,390	30	20	50	C
22505	Electrical & Electronic Techs/Technologists	6	17.10	16.60	12.60	20.40	1,930	2,140	40	40	80	B

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 15
WASATCH FRONT SOUTH SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Codes 1/	Mean Wage	Median Wage	Middle Range Of Wage		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
93114	Electrical/Electronic Assemblers	8	9.50	8.80	7.50	10.90	1,880	1,890	0	40	40	C
85717	Electronics Repairers, Comm or Ind Equip	7	17.10	17.60	12.60	20.70	600	660	10	20	30	C
32508	Emergency Medical Techns/Paramedics	7	NA	NA	NA	NA	760	920	30	20	50	C
22121	Engineers, Civil	5	24.20	22.50	18.50	30.50	1,310	1,470	30	20	50	C
22127	Engineers, Computer	5	28.00	29.90	22.80	37.30	2,010	2,780	150	10	160	B
22126	Engineers, Electrical & Electronics	5	28.30	30.20	23.30	37.60	2,690	2,980	60	50	110	B
22135	Engineers, Mechanical	5	25.30	24.10	20.10	33.80	750	820	10	20	30	C
58008	Expediting Clerks, Production/Planning	11	14.80	15.00	11.30	18.00	1,990	2,040	10	20	30	C
74002	Farm Workers, Excl Agri Services	11	NA	NA	NA	NA	1,220	1,190	(10)	40	30	C
65041	Fast Food Workers	11	6.40	6.00	5.60	7.00	6,430	6,700	50	380	430	B
55321	File Clerks	11	8.40	8.00	6.50	9.70	1,490	1,550	10	60	70	C
25315	Financial Analysts, Statistical	5	NA	NA	NA	NA	690	790	20	10	30	C
81005	First Line Supervisors, Construction	8	20.20	19.50	15.90	23.30	4,440	4,240	(40)	110	70	C
41002	First Line Supervisors, Marketing/Sales	8	16.40	13.50	10.40	19.80	16,380	17,690	260	190	450	A
81002	First Line Supervisors: Mech & Repairers	8	19.40	18.00	13.80	22.80	1,620	1,740	30	40	70	C
51002	First Line Supervisors, Office/Admin Support	8	15.30	13.50	11.10	18.20	6,980	7,770	160	140	300	A
81008	First Line Supervisors, Production	8	17.30	15.80	12.70	20.40	2,090	2,190	20	60	80	C
81011	First Line Supervs: Transportation	8	17.00	16.00	13.50	18.80	620	680	10	20	30	C
68026	Flight Attendants	9	NA	NA	NA	NA	1,250	1,540	60	20	80	B
65038	Food Preparation Workers	11	6.90	6.50	5.80	8.00	4,140	4,340	40	250	290	B
65011	Food Servers	11	6.40	6.20	5.70	7.30	290	340	10	40	50	C
31117	Graduate Assistants, Teaching	5	NA	NA	NA	NA	6,070	6,750	140	160	300	A
63047	Guards	11	8.50	7.90	7.00	9.00	3,650	4,180	110	90	200	A
68017	Guides	11	NA	NA	NA	NA	750	910	30	20	50	C
98902	Hand Packers & Packagers	11	7.00	6.60	5.80	8.00	4,300	5,080	160	110	270	A
98312	Helpers, Carpenters	11	9.50	9.50	7.50	11.20	1,760	1,560	(40)	90	50	C
98102	Helpers, Mechanics & Repairers	11	9.10	8.60	6.80	10.10	1,030	1,140	20	50	70	C

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 15
WASATCH FRONT SOUTH SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

OES Code	Occupational Title	Training/ Education Codes 1/	Mean Wage	Median Wage	Middle Range Of Wage		Labor Demand					
							Total Employment		Average Annual Job Openings			Grade
							2000	2005	Growth	Replace	Total	
66011	Home Health Aides	11	7.70	7.50	6.40	8.60	1,220	1,520	60	20	80	B
65002	Hosts/Hostesses, Restaurant, Lounge	11	6.70	6.50	5.80	7.70	910	970	10	30	40	C
53808	Hotel/Motel/Resort Desk Clerks	11	7.50	7.60	6.90	8.20	660	760	20	30	50	C
55314	Human Resource/Training/Labor Rel Specs	11	11.80	11.10	10.20	13.80	1,020	1,070	10	20	30	C
21511	Human Res/Training/Lab Rel Specs	5	18.30	16.60	13.00	22.50	2,530	2,950	90	60	150	B
85110	Industrial Machinery Mechanics	9	15.10	15.10	12.30	18.00	990	1,060	10	20	30	C
97947	Industrial Truck & Tractor Operators	11	12.00	11.80	9.80	14.00	1,380	1,500	30	10	40	C
83005	Inspectors & Testers, & Graders, Production	8	12.00	11.20	9.00	14.10	1,520	1,540	10	40	50	C
21911	Inspectors & Compliance Officers	8	18.30	16.60	14.10	21.00	1,120	1,260	30	10	40	C
31317	Instructors, Adult (Non-VocEd)	8	11.20	10.60	8.40	12.60	900	1,030	30	10	40	C
31321	Instructors/Coaches, Sports	10	NA	NA	NA	NA	1,540	1,950	80	20	100	B
53302	Insurance Adjusters, Examiners, Investigators	9	19.30	19.00	12.90	23.90	1,160	1,320	30	20	50	C
53311	Insurance Claims Clerks	10	11.80	11.40	10.40	13.50	750	840	20	10	30	C
53314	Insurance Policy Process Clerks	10	10.50	10.40	9.70	11.00	1,200	1,320	30	10	40	C
43002	Insurance Sales Agents	5	18.20	14.80	8.90	26.30	3,100	3,340	50	60	110	B
34041	Interior Designers	5	NA	NA	NA	NA	1,130	1,420	60	10	70	B
55332	Interview Clerks, Excl Personnel	11	9.40	9.30	7.90	10.50	1,000	1,200	40	30	70	B
67005	Janitors & Cleaners	11	7.70	7.30	6.20	8.60	9,060	9,960	180	210	390	A
79041	Laborers, Landscaping/Groundskeeping	11	8.20	7.80	6.70	9.20	7,220	8,270	210	240	450	A
92726	Laundry/Drycleaning Machine Operators	10	8.80	8.10	6.80	9.50	780	890	20	20	40	C
28108	Lawyers	1	36.30	35.80	23.70	56.10	5,600	6,500	180	50	230	A
31502	Librarians	3	18.00	17.10	14.10	21.00	630	690	10	20	30	C
53902	Library Assistants & Bookmobile Drivers	11	8.10	7.90	7.10	8.90	450	520	10	30	40	C
31505	Library Technicians	11	10.50	9.70	8.30	12.10	400	450	10	20	30	C
32505	Licensed Practical/Voc Nurses	7	13.10	12.70	11.30	14.10	1,330	1,530	40	30	70	B
21108	Loan Counselors & Officers	5	17.60	14.20	10.90	21.50	1,680	1,810	30	30	60	C
89108	Machinists	9	14.00	14.10	11.10	17.10	1,260	1,330	10	30	40	C

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 15
WASATCH FRONT SOUTH SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Codes 1/	Mean Wage	Median Wage	Middle Range Of Wage		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
67002	Maids & Housekeeping Cleaners	11	6.90	6.80	5.90	8.00	3,200	3,690	100	60	160	A
57302	Mail Clerks, Excl Mail Machine	11	8.70	8.20	7.30	9.80	1,200	1,350	30	30	60	C
85132	Maintenance Repairers, Gen Util	9	11.60	10.90	8.40	13.90	4,000	4,280	60	90	150	B
21905	Management Analysts	4	23.60	22.50	18.30	31.10	1,420	1,650	50	10	60	C
13014	Managers, Administrative Services	4	NA	NA	NA	NA	2,640	2,910	50	40	90	B
13011	Managers, Advertising, Marketing, Sales	4	28.50	25.40	18.30	40.40	2,810	3,190	80	30	110	B
15023	Managers, Communication/Transp/Utilities	4	NA	NA	NA	NA	770	840	10	10	20	C
13017	Managers, Engineering, Nat Sci, Info Sys	4	32.50	34.20	26.40	42.00	1,610	1,930	70	20	90	B
13002	Managers, Financial	4	25.60	23.00	16.80	35.80	3,960	4,300	70	50	120	B
15026	Managers, Food Service & Lodging	8	13.40	12.30	8.60	15.70	3,730	4,200	90	60	150	B
19005	Managers, General & Top Execs	4	29.10	26.20	17.30	42.30	13,450	14,440	200	210	410	A
13005	Managers, Human Resources	4	21.10	18.90	13.50	29.40	1,260	1,440	40	20	60	B
15032	Managers, Lawn Service	8	15.50	16.10	13.10	18.00	780	1,030	50	10	60	C
15008	Managers, Medical/Health Service	4	25.90	24.50	18.50	35.40	1,250	1,560	60	20	80	B
15011	Managers, Properrty & Real Estate	5	17.00	15.30	8.60	21.60	2,100	2,390	60	20	80	B
32902	Med/Clinical Lab Technologists	5	17.80	17.70	15.30	19.80	730	850	20	10	30	C
66005	Medical Assistants	10	9.80	9.40	7.70	11.50	930	1,210	60	20	80	B
32911	Medical Records & Health Info Techns	6	10.10	9.00	7.70	12.10	280	370	20	10	30	C
32905	Medical/Clinical Lab Technicians	6	10.40	9.60	7.90	11.70	960	1,120	30	10	40	C
85314	Mobile Heavy Equipment Mechannics	9	16.80	16.80	13.20	20.10	1,000	1,070	10	30	40	C
34051	Musicians, Instrumental	9	NA	NA	NA	NA	960	1,140	40	20	60	C
53105	New Accounts Clerks, Banking	8	9.90	9.80	8.50	10.80	840	930	20	30	50	C
32502	Nurses, Registered	6	20.90	20.30	17.30	23.50	8,390	10,040	330	120	450	A
66008	Nursing Aides/Orderlies/Attends	11	8.10	8.00	7.10	8.90	2,830	3,430	120	40	160	A
55347	Office Clerks, General	11	NA	NA	NA	NA	12,740	14,010	250	370	620	A
85926	Office Machine, Cash Register Servicers	9	11.40	8.50	7.20	15.10	1,140	1,270	30	20	50	C
32108	Optometrists	1	NA	NA	NA	NA	480	580	20	10	30	C

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 15
WASATCH FRONT SOUTH SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Codes 1/	Mean Wage	Median Wage	Middle Range Of Wage		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
55323	Order Clerks	11	10.40	9.80	8.50	11.70	2,140	2,260	20	50	70	C
58026	Order Fillers, Wholesale/Retail	11	NA	NA	NA	NA	2,240	2,360	20	50	70	C
92974	Packaging/Filling Maching Operators	10	8.90	8.30	7.10	10.30	1,250	1,400	30	30	60	C
87402	Painters & Paperhangers	10	11.80	10.90	9.20	13.40	3,520	3,310	(40)	90	50	C
28305	Paralegals & Legal Assistants	6	16.00	15.30	12.40	19.10	620	840	40	10	50	C
32517	Pharmacists	1	30.10	34.20	28.90	39.50	600	670	10	20	30	C
34023	Photographers	7	NA	NA	NA	NA	1,490	1,720	50	20	70	B
89914	Photographic Process Workers, Prec	10	NA	NA	NA	NA	630	760	30	30	60	C
66017	Physical Therapy Assists/Aides	6	8.80	8.70	7.00	10.30	480	590	20	10	30	C
32102	Physicians	1	45.50	**	21.30	**	4,350	4,940	120	60	180	A
63014	Police Patrol Officers	9	15.60	15.10	12.90	18.30	800	960	30	20	50	C
57305	Postal Mail Carriers	11	NA	NA	NA	NA	1,030	1,020	(0)	30	30	C
92543	Printing Press Machine Operators	10	12.20	12.40	9.00	14.90	590	660	10	20	30	C
63035	Private Detectives/Investigators	8	9.90	8.20	7.30	10.60	820	1,070	50	20	70	B
27108	Psychologists	3	22.50	22.00	18.30	25.60	980	1,080	20	20	40	C
34008	Public Relations Specialists	5	16.00	14.30	11.50	18.40	880	1,070	40	30	70	B
21308	Purchasing Agents, Excl Whl/Ret/Farm	5	19.40	18.10	14.00	23.40	850	890	10	20	30	C
32919	Radiologic Techs/Technologists	6	15.90	15.30	13.30	18.00	690	830	30	10	40	C
43011	Real Estate Appraisers	5	NA	NA	NA	NA	560	700	30	10	40	C
55305	Reception & Information Clerks	11	8.40	8.20	7.00	9.70	6,140	7,030	180	120	300	A
27311	Recreation Workers	5	NA	NA	NA	NA	830	960	30	20	50	C
32317	Recreational Therapists	5	12.90	12.40	9.50	15.70	340	450	20	0	20	C
53805	Reservation & Transportation Ticket Agts	11	12.40	9.60	8.10	15.20	5,670	6,200	110	120	230	B
27307	Residential Counselors	5	11.90	8.90	7.50	12.30	600	720	30	10	40	C
43023	Sales Agents, Advertising	10	16.40	14.00	11.60	17.60	1,010	1,220	40	30	70	B
43017	Sales Agents, Business Services	10	18.40	15.30	13.30	20.50	2,850	3,520	130	60	190	A
43008	Sales Agents, Real Estate	7	NA	NA	NA	NA	3,740	4,140	80	70	150	B

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 15
WASATCH FRONT SOUTH SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Codes 1/	Mean Wage	Median Wage	Middle Range Of Wage		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
49011	Sales Clerks, Retail	11	9.00	7.50	6.20	9.30	19,740	21,130	280	750	1030	A
49008	Sales Reps, Non-Technical	10	19.20	16.80	12.20	25.00	8,990	9,720	150	210	360	A
49005	Sales Reps, Technical	10	26.20	22.70	19.00	34.00	2,960	3,230	50	70	120	B
49014	Salespersons, Parts	10	13.60	11.90	9.70	15.80	1,310	1,360	10	40	50	C
55108	Secretaries, Excl Legal or Medical	10	11.00	10.90	8.90	12.90	10,770	11,040	50	160	210	B
55102	Secretaries, Legal	7	13.60	13.90	11.00	16.10	1,210	1,330	30	10	40	C
43014	Secrts/Comdts/Fin Ser Sales Agts	5	19.70	15.80	13.20	20.20	1,590	1,850	50	10	60	C
63032	Sheriffs & Deputy Sheriffs	9	14.60	13.50	11.40	17.00	620	780	30	10	40	C
58028	Shipping & /Receiving/ Clerks	11	11.00	10.20	8.10	13.90	3,930	4,060	30	60	90	B
27305	Social Workers, Excl Medical & Psychiatric	5	14.30	13.60	11.80	15.60	2,510	3,050	110	30	140	B
27302	Social Workers, Med/Psychiatric	3	16.80	16.80	13.40	20.10	990	1,240	50	10	60	C
27308	Social/Human Service Assistants	10	9.90	9.20	7.70	18.20	1,340	1,600	50	40	90	B
91708	Soldering/Brazng Machine Setters/Oprs	10	NA	NA	NA	NA	840	870	10	20	30	C
49021	Stock Clerks, Sales Floor	11	8.60	8.00	6.80	9.60	3,920	4,000	20	50	70	C
58023	Stock Clerks: Stockroom or Warehouse	11	9.60	9.00	7.50	11.10	4,300	4,620	60	60	120	B
21111	Tax Preparers	10	NA	NA	NA	NA	400	490	20	10	30	C
97114	Taxi Drivers & Chauffeurs	11	7.70	7.70	6.80	8.60	620	760	30	10	40	C
31521	Teacher Aides, Paraprofessional	11	8.20	7.90	6.80	9.30	3,250	3,790	110	30	140	B
53905	Teacher Aides/Educational Assts	11	NA	NA	NA	NA	2,150	2,490	70	20	90	B
31305	Teachers, Elementary School	5	15.90	15.70	12.10	19.30	4,850	5,160	60	100	160	B
31303	Teachers, Preschool	5	7.10	6.50	5.80	8.00	1,280	1,470	40	20	60	B
31308	Teachers, Secondary School	5	16.60	16.50	12.60	20.20	4,350	4,850	100	130	230	A
31311	Teachers, Special Education	5	16.30	16.90	13.00	19.40	950	1,110	30	10	40	C
31314	Teachers/ Instructors, VocED/Training	8	18.00	16.60	11.00	21.00	1,750	1,950	40	20	60	C
49026	Telemarketers & Other Sales Workers	10	7.80	7.70	7.10	8.30	9,410	12,670	650	280	930	A
85702	Telephone/Cable TV Instalers/Repairers	9	14.30	13.30	10.40	17.90	720	740	0	20	20	C
43021	Travel Agents	7	10.90	10.70	9.00	12.40	860	980	20	20	40	C

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater then \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 15
WASATCH FRONT SOUTH SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					Grade
OES Code	Occupational Title	Training/ Education Codes 1/	Mean Wage	Median Wage	Middle Range Of Wage		Total Employment		Average Annual Job Openings			
					From	To	2000	2005	Growth	Replace	Total	
97102	Truck Drivers, Heavy	11	14.80	14.00	11.20	17.70	12,780	14,270	300	170	470	A
97105	Truck Drivers, Light	11	9.50	8.80	6.90	11.30	7,230	8,080	170	100	270	A
68021	Ushers, Lobby Attendants, Ticket Takers	11	6.60	6.10	5.60	7.30	420	490	10	10	20	C
65008	Waiters & Waitresses	11	6.10	5.90	5.60	6.40	6,290	6,660	70	380	450	B
93914	Welders & Cutters	9	12.90	12.30	10.70	14.60	1,280	1,310	10	30	40	C
34002	Writers & Editors	5	17.20	13.80	12.30	21.20	1,420	1,770	70	40	110	B

Wages for this table represent the Salt Lake-Ogden MSA.

**Value greater than \$60.00 per hour.

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1/ For definition of training codes, see pages 37 & 38.

MOUNTAINLAND SERVICE DELIVERY AREA

(Summit, Utah and Wasatch Counties)

TABLE 16
MOUNTAINLAND SERVICE DELIVERY AREA
EMPLOYMENT PROJECTIONS BY MAJOR INDUSTRY
2000-2005

Industry	Employment		New Jobs 2000-2005	Annual Growth Rate
	2000	2005		
Total Employment	218,690	246,800	28,110	2.6
Mining	140	130	(10)	-1.4
Construction	12,640	10,270	(2,370)	-3.8
Manufacturing	20,620	21,710	1,090	1.1
Transportation/Comm/Utilities	2,920	3,300	380	2.6
Trade	40,010	43,880	3,870	1.9
Finance/Insurance/Real Estate	6,130	6,800	670	2.2
Services*	76,450	90,540	14,090	3.7
Federal Government	1,110	1,210	100	1.8
State Government	2,470	2,800	330	2.7
Local Government	5,820	6,800	980	3.4
Agriculture	4,580	4,740	160	0.7
Self-Employed	45,800	54,620	8,820	3.9

* State Education and Local School District employment is included in Educational Services, a sub-industry of Services.

Source: Utah Department of Workforce Services, Workforce Information, and the Governor's Office of Planning and Budget, Demographic and Economic Analysis, January 2000.

TABLE 17
MOUNTAINLAND SERVICE DELIVERY AREA
EMPLOYMENT AND JOB OPENINGS SUMMARY
BY MAJOR OCCUPATIONAL CATEGORY
2000-2005

Occupational Category	Employment		<u>Annual Average Job Openings</u>		
	2000	2005	Total	Due to Growth	Due to Replacement
Total - All Categories	218,690	246,800	8,080	2,830	5,250
Managerial & Administrative	16,560	19,250	560	270	290
Professional & Paraprofessional	39,110	48,290	1,680	920	760
Technical	8,190	10,590	420	240	180
Sales & Related	37,080	43,830	1,690	680	1,010
Clerical & Administrative Support	27,160	28,760	760	170	590
Service	28,970	32,450	1,290	350	940
Agriculture, Forestry, & Fishing	7,860	8,580	290	70	220
Production, Operating, & Maintenance	53,760	55,050	1,390	130	1,260

Source: Utah Department of Workforce Services, Workforce Information, January 2000.

TABLE 18
MOUNTAINLAND SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
21114	Accountants & Auditors	5	\$17.60	\$15.90	\$12.40	\$21.80	1,400	1,630	20	20	40	A
55338	Accounting & Bookkeeping Clerks	10	10.00	9.70	7.80	11.50	2,470	2,340	(10)	50	40	C
34056	Actors, Directors, Producers	9	15.30	14.80	13.80	15.70	210	310	10	10	20	C
53123	Adjustment Clerks	11	9.00	8.70	7.40	10.00	580	700	10	0	10	C
68014	Amusement & Recreation Attendants	11	7.20	5.90	5.60	7.70	360	460	10	10	20	C
79017	Animal Caretakers, Excl Farm	11	NA	NA	NA	NA	390	470	10	10	20	C
34035	Artists & Commercial Artists	4	16.00	15.20	11.60	19.00	1,000	1,210	20	20	40	B
85305	Automotive Body & Related Repairers	9	13.70	12.50	10.70	14.10	370	390	0	10	10	C
85302	Automotive Mechanics/Service Techicians	7	15.30	14.90	12.10	18.50	1,480	1,680	20	40	60	B
65021	Bakers, Bread & Pastry	10	8.90	8.70	7.10	10.20	460	520	10	10	20	C
53102	Bank Tellers	11	8.00	7.80	7.00	8.70	570	580	0	20	20	C
65005	Bartenders	11	7.40	7.00	5.80	9.50	330	350	0	10	10	C
87302	Brickmasons/Blockmasons	9	NA	NA	NA	NA	640	620	(0)	10	10	C
43005	Brokers, Real Estate	8	24.70	22.40	12.60	35.30	250	340	10	10	20	C
97111	Bus Drivers, School	11	11.00	11.40	8.00	13.30	1,460	1,520	10	30	40	B
97108	Bus Drviers, Transit/Intercity	10	10.70	9.50	7.60	14.20	440	510	10	10	20	C
87102	Carpenters	9	12.70	12.10	10.70	14.50	3,870	3,500	(40)	100	60	C
87602	Carpet Installers	10	13.50	12.90	11.70	15.70	1,520	1,540	0	30	30	C
49023	Cashiers	11	7.10	6.50	5.90	8.20	5,280	6,080	80	230	310	A
68038	Child Care Workers	11	6.10	5.90	5.60	6.60	920	1,140	20	10	30	B
98905	Cleaners of Vehicles/Equipment	11	6.70	6.30	5.70	7.50	560	670	10	20	30	B
25105	Computer Programmers	5	23.70	22.70	18.20	30.40	1,260	1,510	30	40	70	A
25104	Computer Support Specialists	6	14.90	13.00	9.60	18.80	1,240	2,270	100	10	110	A
25102	Computer Systems Analysts	5	21.40	20.90	16.50	25.30	610	1,040	40	0	40	B
65032	Cooks, Fast Food	11	6.40	6.10	5.70	7.30	1,030	1,140	10	30	40	B
65028	Cooks, Institution/Cafeteria	9	8.00	7.90	6.50	9.20	800	720	(10)	20	10	C
65026	Cooks, Restaurant	9	8.60	7.80	6.90	8.80	1,410	1,600	20	40	60	B

Wages for this table represent the Provo-Orem MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

TABLE 18
MOUNTAINLAND SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
68005	Cosmetologists & Hairstylists	7	8.20	7.10	6.00	9.90	1,430	1,850	40	40	80	A
31514	Counselors	3	15.80	14.30	12.00	19.50	400	460	10	10	20	C
49017	Counter & Rental Clerks	11	7.10	6.50	5.90	8.20	920	1,190	30	40	70	A
65017	Counter Attendants, Lunchroom or Cafeteria	11	6.60	6.50	5.80	7.50	920	1,020	10	80	90	B
89505	Custom Tailors & Sewers	8	7.40	7.20	6.20	8.20	410	490	10	10	20	C
66002	Dental Assistants	10	8.70	8.30	7.40	9.90	520	650	10	10	20	B
32105	Dentists	1	39.70	42.40	31.20	**	450	500	10	10	20	C
34038	Designers, Excl Interior	5	10.30	9.30	6.90	11.80	810	1,090	30	10	40	B
85311	Diesel Engine Mechanics	9	14.50	14.80	12.30	17.20	560	610	10	10	20	C
65014	Dining Room/Cafe Attendants Bar/Helpers	11	6.10	5.90	5.60	6.70	690	680	(0)	20	20	C
22514	Drafters	7	13.10	13.10	10.70	15.20	420	450	0	10	10	C
15005	Education Administrators	4	25.20	27.90	18.50	36.30	910	990	10	20	30	B
87202	Electricians	9	14.80	15.60	9.80	18.90	830	770	(10)	20	10	C
32508	Emergency Medical Techns/Paramedics	7	8.20	7.90	7.10	8.80	430	520	10	10	20	B
22121	Engineers, Civil	5	23.40	21.70	18.30	27.20	240	300	10	10	20	C
22127	Engineers, Computer	5	26.60	26.60	20.90	36.60	1,160	2,410	130	10	140	B
22126	Engineers, Electrical & Electronic	5	29.70	30.50	23.50	38.90	420	620	20	10	30	B
74002	Farm Workers	11	NA	NA	NA	NA	3,110	3,050	(10)	100	90	B
65041	Fast Food Workers	11	6.30	6.00	5.60	7.00	1,590	1,690	10	90	100	B
55321	File Clerks	11	7.60	7.70	6.60	8.80	420	400	(0)	10	10	C
81005	First Line Supervisors, Construction & Mining	8	17.30	17.30	14.50	19.50	1,820	1,790	(0)	50	50	C
41002	First Line Supervisors, Marketing/Sales	8	15.50	12.10	9.90	18.50	7,040	7,680	60	90	150	A
81002	First Line Supervisors, Mechanics/Repairers	8	19.30	17.80	12.90	22.60	360	410	0	10	10	C
51002	First Line Supervisors, Office/Admin Support	8	14.40	13.30	10.20	17.30	1,760	1,990	20	40	60	A
81008	First Line Supervisors, Production	8	15.50	15.60	11.90	18.60	950	1,040	10	30	40	B
65038	Food Preparation Workers	11	7.00	6.60	5.80	8.00	2,230	2,330	10	120	130	B
19002	Govt Chief Execs & Legislators	4	9.40	5.90	5.60	6.20	570	610	10	10	20	C

Wages for this table represent the Provo-Orem MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

TABLE 18
MOUNTAINLAND SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
63047	Guards	11	8.10	7.60	6.40	9.10	430	480	10	10	20	C
98902	Hand Packers & Packagers	11	6.50	6.00	5.60	7.40	980	1,140	20	20	40	B
98311	Helpers, Brick/Stone Mason	11	NA	NA	NA	NA	210	170	(0)	10	10	C
98312	Helpers, Carpenters	11	8.10	7.80	6.50	9.70	720	620	(10)	30	20	C
98102	Helpers, Mechanics & Repairerers	11	8.00	7.70	6.50	9.20	310	350	10	10	20	C
65002	Hosts/Hostesses: Restaurant, Lounge	11	7.00	6.90	6.00	8.00	360	410	10	10	20	C
53808	Hotel/Motel/Resort Desk Clerks	11	7.20	7.20	6.40	8.00	370	440	10	10	20	C
21511	Human Resource/Training/Labor Rel Specs	5	16.20	15.80	12.00	18.40	470	550	10	10	20	B
85110	Industrial Machinery Mechanics	9	14.40	14.80	12.80	16.20	390	410	0	10	10	C
97947	Industrial Truck & Tractor Operators	11	11.30	10.80	9.20	13.20	580	600	0	10	10	C
31517	Instructional Coordinators	5	NA	NA	NA	NA	560	630	10	10	20	C
31317	Instructors, Adult (Non-VocEd)	8	12.40	11.30	8.10	15.80	520	610	10	10	20	C
31321	Instructors/Coaches, Sports/Phy	10	11.40	11.30	9.20	13.70	850	1,150	30	10	40	B
43002	Insurance Sales Agents	5	21.30	17.70	12.50	32.50	320	370	10	10	20	C
55332	Interviewing Clerks, Excl Personnel	11	NA	NA	NA	NA	540	650	10	20	30	B
67005	Janitors & Cleaners	11	8.00	7.50	6.20	8.70	3,170	3,140	(0)	70	70	B
79041	Laborers, Landscape & Groundskeeping	11	8.20	8.10	6.70	9.50	3,440	4,040	60	100	160	A
92726	Laundry/Drycleaning Machine Operators	10	6.70	6.10	5.70	7.80	220	270	10	10	20	C
28108	Lawyers	1	25.40	20.30	17.50	32.90	800	910	10	10	20	B
53902	Library Assistants, Bookmobile Drivers	11	9.10	8.30	7.20	11.40	220	250	0	10	10	C
32505	Licensed Practical/Voc Nurses	7	11.70	11.40	10.60	12.80	690	780	10	20	30	B
21108	Loan Counselors & Officers	5	17.90	16.80	11.50	22.00	370	440	10	10	20	C
98502	Machine Feeders & Offbearers	11	8.10	7.80	6.90	8.80	410	460	10	10	20	C
89108	Machinists	9	14.00	14.60	12.50	15.80	490	520	0	10	10	C
67002	Maids & Housekeeping Cleaners	11	6.80	6.60	6.00	7.70	1,820	2,050	20	30	50	B
57302	Mail Clerks, Excl Mail Machine	11	7.60	7.50	6.90	8.20	620	630	0	20	20	C
85132	Maintenance Repairers, Gen Util	9	10.30	9.70	7.90	11.40	1,790	1,900	10	40	50	B

Wages for this table represent the Provo-Orem MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

TABLE 18
MOUNTAINLAND SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
13014	Managers, Administrative Services	4	28.60	24.40	17.40	39.90	370	430	10	10	20	C
13011	Managers, Advertising, Marketing, Sales	4	27.60	25.30	16.40	39.60	640	750	10	10	20	B
15017	Managers, Construction	5	21.20	19.40	15.00	29.70	870	810	(10)	20	10	C
13017	Managers, Engineering, Nat Sci, Info Sys	4	35.20	37.30	25.80	49.90	450	670	20	10	30	B
71005	Managers, Farm	4	NA	NA	NA	NA	330	370	0	10	10	C
13002	Managers, Financial	4	27.00	24.60	16.60	40.10	1,000	1,090	10	20	30	B
19005	Managers, General & Top Execs	4	29.00	24.80	16.50	43.50	3,540	3,920	40	60	100	A
13005	Managers, Human Resources	4	21.40	19.80	12.70	30.50	270	310	0	10	10	C
15008	Managers, Medical/Health Services	4	NA	NA	NA	NA	280	390	10	10	20	C
15011	Managers, Property & Real Estate	5	10.90	9.20	7.10	11.60	550	690	10	10	20	B
15026	Mangers, Food Service & Lodging	8	11.80	10.60	7.60	14.00	2,210	2,690	50	40	90	A
66005	Medical Assistants	10	8.30	8.00	7.30	9.00	360	510	20	10	30	B
32502	Nurses, Registered	6	18.80	18.10	15.50	21.70	1,780	2,290	50	30	80	A
66008	Nursing Aides & Orderlies	11	7.70	7.50	6.60	8.40	730	940	20	10	30	B
66021	Occupational Therapy Assistants/Aides	6	NA	NA	NA	NA	490	550	10	10	20	C
55347	Office Clerks, General	11	9.00	8.30	6.90	10.80	3,310	3,630	30	90	120	A
55323	Order Clerks	11	8.50	8.20	7.20	9.60	1,080	1,110	0	30	30	C
92974	Packaging/Filling Machine Operators	10	8.20	7.90	7.20	8.70	1,490	1,650	20	40	60	B
87402	Painters & Paperhangers	10	13.40	11.60	10.60	16.80	1,600	1,480	(10)	40	30	C
87708	Paving/Surfacing/Tamping Operators	10	14.50	14.70	13.50	15.70	380	340	(0)	10	10	C
32518	Pharmacy Technicians	10	10.00	10.00	8.50	11.60	190	250	10	10	20	C
66017	Physical Therapy Assistants/Aides	6	7.80	7.40	5.90	9.00	230	290	10	10	20	C
32102	Physicians	1	55.20	**	**	**	700	770	10	10	20	C
63011	Police Detectives	8	NA	NA	NA	NA	190	250	10	10	20	C
63014	Police Patrol Officers	9	NA	NA	NA	NA	730	1,030	30	20	50	A
57305	Postal Mail Carriers	11	NA	NA	NA	NA	310	360	10	10	20	C
92543	Printing Press Machine Operators	10	12.10	12.00	9.10	14.80	290	340	10	10	20	C

Wages for this table represent the Provo-Orem MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

TABLE 18
MOUNTAINLAND SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
66014	Psychiatric Aides	11	8.90	8.30	7.50	9.60	530	570	10	10	20	C
27108	Psychologists	3	11.90	10.00	7.60	15.90	900	1,020	10	20	30	B
21308	Purchasing Agents, Excl Whl/Ret/Farm	5	14.00	13.70	10.90	16.60	280	320	0	10	10	C
32919	Radiologic Techns/Technologists	6	NA	NA	NA	NA	270	340	10	0	10	C
55305	Reception & Information Clerks	11	8.00	7.80	7.00	8.70	2,070	2,390	30	40	70	A
27311	Recreation Workers	5	NA	NA	NA	NA	280	330	10	10	20	C
27307	Residential Counselors	5	NA	NA	NA	NA	1,110	1,270	20	30	50	B
87808	Roofers	10	12.30	10.50	7.60	14.90	280	270	(0)	10	10	C
43023	Sales Agents, Advertising	10	NA	NA	NA	NA	250	330	10	10	20	C
43017	Sales Agents, Business Services	10	16.10	12.60	8.70	22.20	1,010	1,310	30	20	50	A
43014	Sales Agents, Financial Sales	5	NA	NA	NA	NA	270	360	10	0	10	C
43008	Sales Agents, Real Estate	7	16.60	17.10	12.20	19.90	730	810	10	20	30	C
49011	Sales Clerks, Retail	11	8.60	7.10	6.10	9.00	7,530	8,400	90	260	350	A
49008	Sales Reps, Non-Technical	10	19.20	15.50	10.80	24.10	1,370	1,520	20	30	50	B
49005	Sales Reps, Technical	10	20.20	15.50	10.70	24.30	1,060	1,290	20	30	50	A
49014	Salespersons, Parts	10	10.60	10.60	8.90	12.10	500	510	0	10	10	C
55108	Secretaries, Ex Legal or Medical	10	9.80	9.50	7.70	11.30	3,910	3,890	(0)	60	60	B
58028	Shipping & Receiving Clerks	11	10.10	9.20	7.70	11.00	1,280	1,360	10	20	30	B
27305	Social Workers, Excl Medical & Psychiatric	5	NA	NA	NA	NA	400	540	10	10	20	C
27302	Social Workers, Medical Psychiatric	3	16.60	16.70	13.50	19.50	310	420	10	0	10	C
27308	Social/Human Service Assistants	10	NA	NA	NA	NA	600	820	20	20	40	B
49021	Stock Clerks, Sales Floor	11	7.90	7.50	6.20	9.10	1,170	1,150	(0)	20	20	C
58023	Stock Clerks, Stockroom, Warehouse	11	8.50	8.10	7.00	9.40	1,050	1,110	10	20	30	C
61005	Supervisors, Police/Detective	8	NA	NA	NA	NA	230	270	0	10	10	C
53905	Teacher Aides & Educational Assistants	11	7.60	7.10	6.00	9.40	310	370	10	0	10	C
31521	Teacher Aides, Paraprofessional	11	NA	NA	NA	NA	3,270	4,090	80	40	120	A
31305	Teachers, Elementary School	5	NA	NA	NA	NA	2,090	2,180	10	50	60	B

Wages for this table represent the Provo-Orem MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

TABLE 18
MOUNTAINLAND SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
31304	Teachers, Kindergarten	5	7.90	7.10	6.00	8.50	680	710	0	10	10	C
31303	Teachers, Preschool	5	6.60	6.30	5.80	7.60	380	440	10	10	20	C
31308	Teachers, Secondary School	5	16.30	16.90	12.50	19.30	2,880	3,300	40	90	130	A
31311	Teachers, Special Education	5	15.70	15.40	12.60	18.90	800	1,000	20	10	30	B
31314	Teachers/ Instructors, VocED/Training	8	19.80	16.20	11.00	25.40	610	700	10	10	20	C
49026	Telemarketers & Sales Workers	10	7.90	7.60	6.90	8.40	7,360	10,040	270	190	460	A
85953	Tire Repairers & Changers	11	7.60	7.50	6.70	8.30	200	210	0	10	10	C
97102	Truck Drivers, Heavy	11	13.90	14.10	11.00	16.20	1,870	2,030	20	30	50	B
97105	Truck Drivers, Light	11	9.70	8.90	7.00	10.80	1,810	2,090	30	30	60	A
65008	Waiters & Waitresses	11	6.20	5.90	5.60	6.60	2,730	2,940	20	150	170	B
93914	Welders & Cutters	9	11.90	11.60	9.60	13.50	570	650	10	20	30	C
34002	Writers & Editors	5	15.80	13.30	11.40	18.90	900	1,200	30	20	50	A

Wages for this table represent the Provo-Orem MSA.

**Value greater than \$60.00 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

CENTRAL SERVICE DELIVERY AREA

(Jab, Millard, Piute, Sanpete, Sevier, and Wayne Counties)

TABLE 19
CENTRAL SERVICE DELIVERY AREA
EMPLOYMENT PROJECTIONS BY MAJOR INDUSTRY
2000-2005

Industry	Employment		New Jobs 2000-2005	Annual Growth Rate
	2000	2005		
Total Employment	32,170	35,750	3,580	2.2
Mining	450	520	70	3.1
Construction	1,100	1,070	(30)	-0.5
Manufacturing	2,460	2,550	90	0.7
Transportation/Comm/Utilities	1,590	1,720	130	1.6
Trade	5,310	5,750	440	1.7
Finance/Insurance/Real Estate	430	480	50	2.3
Services*	7,580	8,830	1,250	3.3
Federal Government	440	470	30	1.4
State Government	760	850	90	2.4
Local Government	1,660	1,900	240	2.9
Agriculture	3,300	3,240	(60)	-0.4
Self-Employed	7,090	8,370	1,280	3.6

* State Education and Local School District employment is included in Educational Services, a sub-industry of Services.

Source: Utah Department of Workforce Services, Workforce Information, and the Governor's Office of Planning and Budget, Demographic and Economic Analysis, January 2000.

TABLE 20
CENTRAL SERVICE DELIVERY AREA
EMPLOYMENT AND JOB OPENINGS SUMMARY
BY MAJOR OCCUPATIONAL CATEGORY
2000-2005

Occupational Category	Employment		<u>Annual Average Job Openings</u>		
	2000	2005	Total	Due to Growth	Due to Replacement
Total - All Categories	32,170	35,750	1,530	710	820
Managerial & Administrative	2,130	2,390	90	50	40
Professional & Paraprofessional	5,110	5,980	250	170	80
Technical	1,130	1,310	60	40	20
Sales & Related	3,070	3,430	170	70	100
Clerical & Administrative Support	2,590	2,800	100	40	60
Service	5,300	6,150	360	170	190
Agriculture, Forestry, & Fishing	4,490	4,590	160	20	140
Production, Operating, & Maintenance	8,350	9,100	340	150	190

Source: Utah Department of Workforce Services, Workforce Information, January 2000.

TABLE 21
CENTRAL SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
85302	Automotive Mechanics/Service Techicians	7	\$12.60	\$11.50	\$8.60	\$15.50	430	480	10	0	10	C
43005	Brokers, Real Estate	8	NA	NA	NA	NA	180	240	20	0	20	B
87102	Carpenters	9	NA	NA	NA	NA	580	520	10	10	20	C
49023	Cashiers	11	6.90	6.40	5.90	7.90	1,080	1,200	10	10	20	A
68038	Child Care Workers	11	6.30	6.00	5.60	7.00	190	250	10	0	10	C
32113	Chiropractors	1	NA	NA	NA	NA	210	270	10	10	20	C
65026	Cooks, Restaurant	9	8.10	8.00	6.40	9.50	190	210	10	20	30	A
63017	Correctional Officers	9	NA	NA	NA	NA	220	270	30	10	40	A
68005	Cosmetologists & Hairstylists	7	NA	NA	NA	NA	170	210	10	0	10	B
65017	Counter Attendants, Lunchroom or Cafeteria	11	6.00	5.90	5.60	6.50	210	230	10	0	10	C
34038	Designers, Excl Interior	5	8.80	6.00	5.70	10.80	230	300	20	0	20	B
15005	Education Administrators	4	24.70	26.10	17.50	35.90	260	290	10	10	20	B
22121	Engineers, Civil	5	23.70	23.10	19.30	28.10	160	200	10	0	10	B
74002	Farm Workers, Excl Ag Services	11	NA	NA	NA	NA	3,050	3,040	10	20	30	B
65041	Fast Food Workers	11	6.20	6.00	5.60	6.70	530	580	20	60	80	A
81005	First Line Supervisors, Construction & Mining	8	22.70	21.50	16.60	31.60	120	160	10	10	20	C
41002	First Line Supervisors, Marketing/Sales	8	12.50	10.80	8.90	13.40	620	680	10	10	20	B
65038	Food Preparation Workers	11	6.60	6.10	5.70	7.30	320	340	10	0	10	C
97938	Grader/Bulldozer/Scraper Operators	10	15.30	15.80	11.80	17.90	110	150	10	10	20	C
98312	Helpers, Carpenters	11	NA	NA	NA	NA	300	250	10	20	30	C
66011	Home Health Aides	11	7.70	7.60	6.70	8.40	100	150	0	30	30	C
21511	Human Resource/Training/Labor Rel Specs	5	16.60	15.90	13.50	19.10	280	350	0	10	10	C
67005	Janitors & Cleaners	11	8.10	7.30	5.90	10.30	710	820	10	20	30	C
79041	Laborers, Landscaping & Groundskeeping	11	8.60	8.20	6.30	10.80	530	580	10	30	40	A
67002	Maids & Housekeeping Cleaners	11	6.80	6.50	5.80	7.80	320	390	20	0	20	B
85132	Maintenance Repairers, Gen Util	9	11.60	10.80	8.50	14.70	280	310	10	0	10	C
15026	Managers, Food Service & Lodging	8	14.60	12.40	10.70	15.30	410	480	10	10	20	B

Wages for this table represent the Central, Uintah Basin, and Southeast Service Delivery Areas.

Source: Utah Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

TABLE 21
CENTRAL SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
19005	Managers, General & Top Execs	4	22.80	18.90	12.60	30.30	410	450	20	20	40	A
32502	Nurses, Registered	6	17.70	17.20	15.20	19.60	200	240	10	0	10	C
66008	Nursing Aides, Orderlies, Attendants	11	7.60	7.50	6.70	8.40	320	400	10	0	10	C
55347	Office Clerks, General	11	9.10	8.50	6.80	10.60	440	500	0	110	110	B
63014	Police Patrol Officers	9	12.70	12.60	11.30	14.50	150	190	10	20	30	B
49011	Sales Clerks, Retail	11	7.90	7.10	6.10	8.40	420	470	10	0	10	C
55108	Secretaries, Excl Legal or Medical	10	9.60	9.10	7.20	11.50	530	570	10	0	10	C
31521	Teacher Aides, Paraprofessional	11	8.00	8.00	6.70	9.40	810	960	10	10	20	B
31305	Teachers, Elementary School	5	16.70	16.60	13.70	18.80	480	510	(10)	20	10	C
31308	Teachers, Secondary School	5	16.00	15.60	12.80	18.60	490	550	50	20	70	A
97102	Truck Drivers, Heavy	11	14.80	13.20	11.50	17.00	1,370	1,590	10	0	10	C
97105	Truck Drivers, Light	11	10.90	10.80	7.70	12.10	230	270	10	0	10	C
65008	Waiters & Waitresses	11	5.80	5.80	5.50	6.10	380	420	(10)	20	10	C

Wages for this table represent the Central, Uintah Basin, and Southeast Service Delivery Areas.

Source: Utah Department of Workforce Services, Workforce Information, January 2001

1/ For definition of training codes, see pages 37 & 38.

SOUTHWEST SERVICE DELIVERY AREA

(Beaver, Garfield, Iron, Kane, and Washington Counties)

TABLE 22
SOUTHWEST SERVICE DELIVERY AREA
EMPLOYMENT PROJECTIONS BY MAJOR INDUSTRY
2000-2005

Industry	Employment		New Jobs 2000-2005	Annual Growth Rate
	2000	2005		
Total Employment	75,640	90,850	15,210	4.0
Mining	250	320	70	5.6
Construction	4,940	5,410	470	1.9
Manufacturing	5,090	5,630	540	2.1
Transportation/Comm/Utilities	2,450	2,900	450	3.7
Trade	15,180	17,630	2,450	3.2
Finance/Insurance/Real Estate	1,980	2,320	340	3.4
Services*	19,760	24,640	4,880	4.9
Federal Government	1,020	1,170	150	2.9
State Government	770	910	140	3.6
Local Government	2,960	3,630	670	4.5
Agriculture	2,750	3,040	290	2.1
Self-Employed	18,490	23,250	4,760	5.1

* State Education and Local School District employment is included in Educational Services, a sub-industry of Services.

Source: Utah Department of Workforce Services, Workforce Information, and the Governor's Office of Planning and Budget, Demographic and Economic Analysis, January 2000.

TABLE 23
SOUTHWEST SERVICE DELIVERY AREA
EMPLOYMENT AND JOB OPENINGS SUMMARY
BY MAJOR OCCUPATIONAL CATEGORY
2000-2005

Occupational Category	Employment		<u>Annual Average Job Openings</u>		
	2000	2005	Total	Due to Growth	Due to Replacement
Total - All Categories	75,640	90,850	4,940	3,050	1,890
Managerial & Administrative	6,210	7,900	430	340	90
Professional & Paraprofessional	9,820	12,280	660	490	170
Technical	2,510	3,100	170	120	50
Sales & Related	10,670	12,900	800	440	360
Clerical & Administrative Support	8,940	10,610	550	340	210
Service	12,440	14,670	870	450	420
Agriculture, Forestry, & Fishing	4,390	5,180	290	160	130
Production, Operating, & Maintenance	20,660	24,210	1,170	710	460

Source: Utah Department of Workforce Services, Workforce Information, January 2000.

TABLE 24
SOUTHWEST SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
21114	Accountants & Auditors	5	\$16.00	\$15.10	\$12.70	\$19.00	390	510	20	10	30	B
55338	Accounting & Bookkeeping Clerks	10	9.70	9.30	7.30	11.10	950	1,050	20	20	40	B
34056	Actors/Directors/Producers	9	9.30 *	6.40	5.80	11.90	150	190	10	0	10	C
79017	Animal Caretakers, Ex Farm	11	8.80 *	7.90	6.20	10.20	370	460	20	0	20	B
34035	Artists & Commercial Artists	4	16.00 *	14.40	12.30	18.80	100	140	10	0	10	C
85305	Automotive Body & Related Repairers	9	13.30 *	11.70	8.30	16.00	170	210	10	0	10	C
85302	Automotive Mechanics/Service Techs	7	14.10	13.20	9.20	18.30	980	1,200	40	30	70	A
53102	Bank Tellers	11	8.10 *	7.90	7.00	8.90	250	280	10	10	20	C
87302	Brickmasons/Blockmasons	9	NA *	NA	NA	NA	410	450	10	10	20	C
89311	Cabinetmakers/Bench Carpenters	9	10.60 *	10.30	7.70	12.50	520	610	20	0	20	B
87102	Carpenters	9	12.40	12.30	10.70	13.80	1,560	1,980	80	40	120	A
49023	Cashiers	11	7.30 *	7.00	6.10	8.50	2,780	3,330	110	160	270	A
22121	Civil Engineers	5	24.20 *	22.50	18.50	30.30	110	150	10	0	10	C
98905	Cleaners of Vehicles & Equipment	11	7.00	6.40	5.70	8.10	230	280	10	10	20	B
87311	Concrete Finishers/Masons	9	12.10	11.90	9.70	14.80	330	380	10	0	10	C
65032	Cooks, Fast Food	11	6.50 *	6.10	5.70	7.40	250	290	10	10	20	C
65028	Cooks, Institution/Cafeteria	9	8.60 *	8.40	6.90	10.00	200	220	0	10	10	C
65026	Cooks, Restaurant	9	8.10 *	7.80	6.60	9.00	600	720	20	20	40	B
65035	Cooks, Short Order	11	6.60 *	6.40	5.80	7.50	170	200	10	0	10	C
63017	Correctional Officers	9	13.50 *	12.70	11.30	15.00	140	190	10	0	10	C
68005	Cosmetologists & Hairstylists	7	7.80 *	7.00	5.90	9.10	380	510	30	10	40	B
49017	Counter & Rental Clerks	11	6.70	6.30	5.80	7.60	240	320	20	10	30	B
65017	Counter Attendants/Lunchroom/Cafeteria	11	6.60 *	6.50	5.80	7.60	390	450	10	60	70	B
92965	Crushing/Grinding/Mixing Machine Operators	10	NA *	NA	NA	NA	110	150	10	0	10	C
32105	Dentists	1	43.60 *	50.70	34.10	**	200	250	10	0	10	C
34038	Designers, Excl Interior	5	11.50 *	9.30	7.20	14.00	140	190	10	0	10	C
65014	Dining Room/Cafe Attendants/Bar Helpers	11	6.70 *	6.20	5.70	7.70	140	160	0	10	10	C

Unless noted with (*), wage are for Iron and Washington counties.

*Statewide wages.

**Value greater then \$60 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of codes, see pages 37 & 38.

TABLE 24
SOUTHWEST SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
22514	Drafters	7	13.90 *	13.10	10.70	16.10	210	260	10	10	20	C
15005	Education Administrators	4	27.00	29.80	21.60	37.80	250	300	10	10	20	C
87202	Electricians	9	NA *	NA	NA	NA	330	350	10	0	10	C
32508	Emergency Medical Techs/Paramedics	7	9.10 *	9.10	7.50	10.20	240	330	20	0	20	B
74002	Farm Workers, Excl Agri Services	11	NA *	NA	NA	NA	2,100	2,280	40	70	110	B
65041	Fast Food Workers	11	6.40 *	6.00	5.60	7.00	680	770	20	40	60	B
81005	First Line Supervisors, Construction	8	19.70 *	18.80	15.20	23.00	1,190	1,440	50	30	80	A
41002	First Line Supervisors, Marketing/Sales	8	12.80	10.80	8.10	15.20	2,580	3,110	110	30	140	A
81002	First Line Supervisors, Mechanics & Repairers	8	18.30	17.40	12.90	22.00	190	230	10	0	10	C
51002	First Line Supervisors, Office/Admin Support	8	13.90	12.90	10.30	16.20	480	590	20	10	30	B
81008	First Line Supervisors, Production	8	16.20	14.10	11.70	17.60	220	260	10	10	20	C
65038	Food Preparation Workers	11	6.90 *	6.50	5.80	7.90	690	790	20	40	60	B
97938	Grader/Bulldozer/Scraper Operators	10	NA *	NA	NA	NA	170	220	10	0	10	C
63047	Guards	11	8.80 *	8.00	7.00	9.50	160	190	10	0	10	C
98902	Hand Packers & Packagers	11	6.60	6.50	5.70	7.70	570	600	10	10	20	C
87308	Hard Tile Setters	9	NA *	NA	NA	NA	290	330	10	0	10	C
98312	Helpers, Carpenters	11	8.80	8.40	7.30	10.10	230	280	10	10	20	C
98102	Helpers, Mechanics & Repairers	11	9.00 *	8.50	6.70	10.10	130	160	10	0	10	C
66011	Home Health Aides	11	7.70 *	7.50	6.50	8.60	270	350	20	0	20	C
53808	Hotel/Motel/Resort Desk Clerks	11	7.40	7.20	6.10	8.50	460	560	20	20	40	B
27308	Human Service Assistants	10	8.30	7.90	6.90	9.10	300	330	10	0	10	C
31321	Instructors/Coaches, Sports	10	11.00 *	10.30	6.10	14.80	220	300	20	0	20	C
43002	Insurance Sales Agents	5	18.50 *	15.10	9.10	26.00	160	200	10	0	10	C
55332	Interview Clerks, Excl Personnel	11	8.40 *	8.30	6.70	9.90	110	140	10	0	10	C
67005	Janitors & Cleaners	11	9.20	8.20	5.80	11.90	940	1,100	30	20	50	B
79041	Laborers, Landscaping/Groundskeeping	11	8.10	7.90	6.60	9.20	1,270	1,670	80	40	120	A
92726	Laundry/Drycleaning Machine Operators	10	8.20 *	7.60	6.30	9.00	200	270	10	10	20	B

Unless noted with (*), wage are for Iron and Washington counties.

*Statewide wages.

**Value greater then \$60 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of codes, see pages 37 & 38.

TABLE 24
SOUTHWEST SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
28108	Lawyers	1	34.70 *	33.20	22.10	52.70	410	530	30	0	30	B
32505	Licensed Practical/Voc Nurses	7	10.80	10.90	9.70	12.00	250	320	10	10	20	C
97923	Loading Maching Operators	10	NA *	NA	NA	NA	270	330	10	10	20	C
21108	Loan Counselors & Officers	5	14.00	12.00	9.80	15.10	200	230	10	0	10	C
67002	Maids & Housekeeping Cleaners	11	6.60	6.40	5.70	7.60	1,570	1,980	80	30	110	A
57302	Mail Clerks, Excl Mail Machine	11	7.60	7.60	7.10	8.20	210	290	20	0	20	B
85132	Maintenance Repairers, Gen Util	9	10.20	9.80	7.20	12.40	800	960	30	20	50	B
15017	Managers, Construction	5	NA *	NA	NA	NA	540	700	30	10	40	B
71005	Managers, Farm	4	NA *	NA	NA	NA	220	250	10	0	10	C
13002	Managers, Financial	4	20.60	19.20	15.70	24.90	280	340	10	10	20	C
15026	Managers, Food Service & Lodging	8	13.30 *	11.90	8.50	15.40	830	1,060	50	10	60	A
19005	Managers, General & Top Execs	4	28.00 *	24.50	16.30	41.20	1,280	1,490	40	20	60	B
15011	Managers, Property & Real Estate	5	15.80 *	13.60	8.30	19.80	180	230	10	0	10	C
85928	Mechanical Control Installers & Repairers	9	NA *	NA	NA	NA	170	210	10	0	10	C
66005	Medical Assistants	10	9.40 *	9.00	7.60	10.80	310	430	30	0	30	B
91714	Metal Fabricators, Strucrtal Metal	10	NA *	NA	NA	NA	430	460	10	10	20	C
32502	Nurses, Registered	6	19.00	18.80	16.70	21.70	870	1,160	60	10	70	A
66008	Nursing Aides/Orderlies/Attendants	11	8.00 *	7.80	7.00	8.70	640	840	40	10	50	A
55347	Office Clerks, General	11	8.30	7.90	6.00	10.10	1,060	1,300	50	30	80	A
87402	Painters & Paperhangers	10	11.90 *	11.00	9.30	13.70	380	400	10	10	20	C
32102	Physicians	1	46.80 *	**	28.40	**	250	310	10	10	20	C
63014	Police Patrol Officers	9	14.80 *	14.20	NA	NA	150	200	10	0	10	C
55305	Reception & Information Clerks	11	7.70	7.50	6.10	8.90	500	600	20	10	30	B
27311	Recreation Workers	5	8.10 *	7.30	6.00	9.70	220	270	10	10	20	C
87808	Roofers	10	12.50 *	12.10	10.00	15.30	190	220	10	0	10	C
43017	Sales Agents, Business Services	10	17.90 *	15.10	12.10	21.30	110	160	10	0	10	C
43008	Sales Agents, Real Estate	7	19.90 *	15.00	9.20	22.10	300	390	20	0	20	B

Unless noted with (*), wage are for Iron and Washington counties.

*Statewide wages.

**Value greater then \$60 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of codes, see pages 37 & 38.

TABLE 24
SOUTHWEST SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
49011	Sales Clerks, Retail	11	8.80	7.20	6.10	8.80	2,730	3,250	110	100	210	A
49008	Sales Reps, Non-Technical	10	17.10	16.00	11.80	20.10	400	470	10	10	20	B
55108	Secretaries, Excl Legal or Medical	10	9.40	9.50	7.10	11.30	1,070	1,230	30	20	50	B
63032	Sheriffs & Deputy Sheriffs	9	14.60 *	13.60	11.50	16.90	120	160	10	0	10	C
58028	Shipping & Receiving/ Clerks	11	9.40	8.10	7.00	10.20	430	480	10	10	20	C
27305	Social Workers, Excl Medical/Psychtric	5	14.20 *	13.60	11.90	15.50	160	200	10	0	10	C
49021	Stock Clerks, Sales Floor	11	7.40	7.40	6.40	8.30	450	510	10	10	20	C
61008	Supervisors, Institutional Cleaning	8	NA *	NA	NA	NA	180	220	10	0	10	C
31521	Teacher Aides, Paraprofessional	11	7.90 *	7.70	6.60	9.10	1,010	1,290	60	10	70	A
53905	Teacher Aides/Educational Assistants	11	NA *	NA	NA	NA	180	230	10	0	10	C
31305	Teachers, Elementary School	5	15.90 *	15.90	12.10	19.30	1,080	1,260	40	20	60	B
31308	Teachers, Secondary School	5	16.10 *	16.10	12.30	19.50	510	620	20	20	40	B
49026	Telemarketers & Related Workers	10	7.90 *	7.70	7.10	8.30	240	320	20	0	20	B
85953	Tire Repairers & Changers	11	7.70 *	7.60	6.70	8.50	140	160	0	10	10	C
89111	Tool Grinders/Filers/Sharpeners	9	NA *	NA	NA	NA	120	160	10	0	10	C
97102	Truck Drivers, Heavy	11	15.10	15.10	12.20	17.90	1,340	1,690	70	20	90	A
97105	Truck Drivers, Light	11	9.40	8.80	6.80	10.20	870	1,100	50	10	60	A
68021	Ushers/Lobby Attendants/Ticket Takers	11	6.60 *	6.30	5.70	7.40	140	170	10	0	10	C
65008	Waiters & Waitresses	11	5.60	5.70	5.50	5.90	1,450	1,660	40	90	130	B
95002	Water & Waste Treat Plant Opers	9	NA *	NA	NA	NA	150	190	10	0	10	C
93914	Welders & Cutters	9	12.00	11.40	10.00	14.20	240	280	10	0	10	C

Unless noted with (*), wage are for Iron and Washington counties.

*Statewide wages.

**Value greater then \$60 per hour.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of codes, see pages 37 & 38.

UINTAH BASIN SERVICE DELIVERY AREA

(Daggett, Duchesne, and Uintah Counties)

TABLE 25
UINTAH BASIN SERVICE DELIVERY AREA
EMPLOYMENT PROJECTIONS BY MAJOR INDUSTRY
2000-2005

Industry	Employment		New Jobs 2000-2005	Annual Growth Rate
	2000	2005		
Total Employment	20,900	22,450	1550	1.5
Mining	1,600	1,100	(500)	-6.3
Construction	670	570	(100)	-3.0
Manufacturing	410	430	20	1.0
Transportation/Comm/Utilities	1,100	1,190	90	1.6
Trade	3,290	3,530	240	1.5
Finance/Insurance/Real Estate	310	340	30	1.9
Services*	4,430	5,120	690	3.1
Federal Government	540	580	40	1.5
State Government	310	340	30	1.9
Local Government	1,340	1,530	190	2.8
Agriculture	1,830	1,800	(30)	-0.3
Self-Employed	5,070	5,920	850	3.4

* State Education and Local School District employment is included in Educational Services, a sub-industry of Services.

Source: Utah Department of Workforce Services, Workforce Information, and the Governor's Office of Planning and Budget, Demographic and Economic Analysis, January 2000.

TABLE 26
UINTAH BASIN SERVICE DELIVERY AREA
EMPLOYMENT AND JOB OPENINGS SUMMARY
BY MAJOR OCCUPATIONAL CATEGORY
2000-2005

Occupational Category	Employment		<u>Annual Average Job Openings</u>		
	2000	2005	Total	Due to Growth	Due to Replacement
Total - All Categories	20,900	22,450	810	300	510
Managerial & Administrative	1,450	1,590	50	30	20
Professional & Paraprofessional	2,960	3,370	120	70	50
Technical	610	710	30	20	10
Sales & Related	2,460	2,760	140	60	80
Clerical & Administrative Support	2,300	2,430	80	30	50
Service	2,660	3,070	180	80	100
Agriculture, Forestry, & Fishing	2,600	2,700	100	20	80
Production, Operating, & Maintenance	5,860	5,820	110	(10)	120

Source: Utah Department of Workforce Services, Workforce Information, January 2000.

TABLE 27
UINTAH SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Codes 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
49023	Cashiers	11	\$6.90	\$6.40	\$5.90	\$7.90	490	550	10	30	40	B
65017	Counter Attendants, Lunchroom or Cafeteria	11	6.00	5.90	5.60	6.50	80	90	0	10	10	C
34038	Designers, Excl Interior	5	8.80	6.00	5.70	10.80	220	290	10	0	10	B
74002	Farm Workers, Excl Agri Services	11	NA	NA	NA	NA	1,740	1,750	0	60	60	B
41002	First Line Supervisors, Marketing/Sales	8	12.50	10.80	8.90	13.40	780	900	20	10	30	A
65038	Food Preparation Workers	11	6.60	6.10	5.70	7.30	170	180	0	10	10	C
68017	Guides	11	NA	NA	NA	NA	140	180	10	0	10	C
67005	Janitors & Cleaners	11	8.10	7.30	5.90	10.30	250	280	0	10	10	C
79041	Laborers, Landscaping & Groundskeeping	11	8.60	8.20	6.30	10.80	280	320	10	10	20	C
67002	Maids & Housekeeping Cleaners	11	6.80	6.50	5.80	7.80	200	240	10	0	10	C
85132	Maintenance Repairers, Gen Util	9	11.60	10.80	8.50	14.70	270	290	0	10	10	C
15026	Managers, Food Service & Lodging	8	14.60	12.40	10.70	15.30	270	340	10	0	10	B
55347	Office Clerks, General	11	9.50	8.80	7.20	10.80	350	370	0	10	10	C
49011	Sales Clerks, Retail	11	7.90	7.10	6.10	8.40	700	760	10	30	40	A
27302	Social Workers, Medical & Psychiatric	3	15.50	15.60	10.60	19.30	160	200	10	0	10	C
31521	Teacher Aides, Paraprofessional	11	8.00	8.00	6.70	9.40	360	420	10	0	10	B
31308	Teachers, Secondary School	5	16.00	15.60	12.80	18.60	260	280	0	10	10	C
97102	Truck Drivers, Heavy	11	14.80	13.20	11.50	17.00	900	1,010	20	10	30	A
97105	Truck Drivers, Light	11	10.90	10.80	7.70	12.10	310	370	10	0	10	B
65008	Waiters & Waitresses	11	5.80	5.80	5.50	6.10	370	390	10	20	30	C

Wages for this table represent the Central, Uintah Basin, and Southeast Service Delivery Areas.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

SOUTHEAST SERVICE DELIVERY AREA

(Carbon, Emery, Grand, and San Juan Counties)

TABLE 28
SOUTHEAST SERVICE DELIVERY AREA
EMPLOYMENT PROJECTIONS BY MAJOR INDUSTRY
2000-2005

Industry	Employment		New Jobs 2000-2005	Annual Growth Rate
	2000	2005		
Total Employment	29,150	31,950	2,800	1.9
Mining	2,390	2,600	210	1.8
Construction	1,250	990	(260)	-4.2
Manufacturing	880	900	20	0.5
Transportation/Comm/Utilities	1,500	1,570	70	0.9
Trade	5,130	5,450	320	1.2
Finance/Insurance/Real Estate	370	390	20	1.1
Services*	7,810	9,010	1,200	3.1
Federal Government	600	650	50	1.7
State Government	640	700	60	1.9
Local Government	1,690	1,910	220	2.6
Agriculture	1,160	1,140	(20)	-0.3
Self-Employed	5,730	6,640	910	3.2

* State Education and Local School District employment is included in Educational Services, a sub-industry of Services.

Source: Utah Department of Workforce Services, Workforce Information, and the Governor's Office of Planning and Budget, Demographic and Economic Analysis, January 2000.

TABLE 29
SOUTHEAST SERVICE DELIVERY AREA
EMPLOYMENT AND JOB OPENINGS SUMMARY
BY MAJOR OCCUPATIONAL CATEGORY
2000-2005

Occupational Category	Employment		<u>Annual Average Job Openings</u>		
	2000	2005	Total	Due to Growth	Due to Replacement
Total - All Categories	29,150	31,950	1,280	550	730
Managerial & Administrative	1,910	2,110	70	40	30
Professional & Paraprofessional	3,930	4,480	170	110	60
Technical	960	1,090	50	20	30
Sales & Related	3,650	4,070	200	80	120
Clerical & Administrative Support	3,140	3,400	120	50	70
Service	5,050	5,650	290	120	170
Agriculture, Forestry, & Fishing	1,850	1,940	80	20	60
Production, Operating, & Maintenance	8,660	9,210	300	110	190

Source: Utah Department of Workforce Services, Workforce Information, January 2000.

TABLE 30
SOUTHEAST SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
55338	Accounting & Bookkeeping Clerks	10	\$10.10	\$9.50	\$7.30	\$11.80	380	390	0	10	10	C
85302	Automotive Mechanics/Service Techicians	7	13.40 *	13.00	9.50	16.60	250	280	10	10	20	C
97111	Bus Drivers, School	11	11.00 *	11.30	8.40	13.60	410	440	10	10	20	C
87102	Carpenters	9	13.70 *	13.70	11.10	16.00	220	290	10	10	20	B
49023	Cashiers	11	7.30 *	7.00	6.10	8.50	1020	1,120	20	60	80	A
68038	Child Care Workers	11	6.70 *	6.50	5.80	7.70	270	340	20	0	20	B
65026	Cooks, Restaurant	9	8.10 *	7.80	6.60	9.00	290	320	10	10	20	C
49017	Counter & Rental Clerks	11	7.30	6.70	6.00	8.10	100	130	10	10	20	C
74002	Farm Workers, Excl Agri Services	11	NA	NA	NA	NA	1030	1,020	(0)	40	40	B
65041	Fast Food Workers	11	6.40 *	6.00	5.60	7.00	200	220	0	10	10	C
81005	First Line Supervisors, Construction & Mining	8	19.70 *	18.80	15.20	23.00	990	1,070	20	30	50	A
41002	First Line Supervisors, Marketing/Sales	8	15.60 *	12.70	10.00	18.70	910	1,010	20	10	30	A
51002	First Line Supervisors, Office/Admin Support	8	13.70	12.10	10.10	15.50	260	300	10	10	20	C
65038	Food Preparation Workers	11	6.90 *	6.50	5.80	7.90	400	430	10	20	30	C
68017	Guides	11	8.10	8.50	6.60	9.40	180	230	10	10	20	C
53808	Hotel/Motel/Resort Desk Clerks	11	7.30	7.30	6.30	8.20	170	200	10	10	20	C
27308	Human Service Assistants	10	9.70	9.40	7.40	11.40	170	200	10	10	20	C
55332	Interviewing Clerks, Excl Personnel	11	7.20	6.90	6.00	8.70	200	240	10	10	20	C
67005	Janitors & Cleaners	11	7.90 *	7.40	6.20	8.90	690	720	10	20	30	B
79041	Laborers, Landscaping/Groundskeeping	11	8.20 *	7.90	6.60	9.40	500	580	20	20	40	A
67002	Maids & Housekeeping Cleaners	11	6.80 *	6.60	5.80	7.80	570	680	20	10	30	A
85132	Maintenance Repairers, Gen Util	9	11.50 *	10.70	8.30	14.00	470	500	10	10	20	C
15026	Managers, Food Service & Lodging	8	13.30 *	11.90	8.50	15.40	260	310	10	0	10	C
19005	Managers, General & Top Execs	4	28.00 *	24.50	16.30	41.20	470	510	10	10	20	B
32502	Nurses, Registered	6	20.20 *	19.60	16.70	23.00	250	310	10	0	10	B
66008	Nursing Aides, Orderlies, Attendants	11	8.00 *	7.80	7.00	8.70	210	270	10	0	10	C
55347	Office Clerks, General	11	9.50 *	8.80	7.20	10.80	360	390	10	10	20	C

Unless noted with (*), wages are for Central, Uintah Basin, and Southeast Service Delivery Areas.

*Statewide wages.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

TABLE 30
SOUTHEAST SERVICE DELIVERY AREA
LABOR DEMAND BY OCCUPATION
2000-2005

2000-2005							Labor Demand					
OES Code	Occupational Title	Training/ Education Code 1/	Mean Wage	Median Wage	Middle Range Of Wages		Total Employment		Average Annual Job Openings			Grade
					From	To	2000	2005	Growth	Replace	Total	
87921	Roustabouts, Oil/Gas	11	11.60	11.40	9.20	14.20	110	160	10	0	10	C
49011	Sales Clerk, Retail	11	8.80 *	7.30	6.10	9.10	510	560	10	20	30	B
55108	Secretaries, Excl Legal or Medical	10	10.60 *	10.50	8.30	12.50	460	500	10	10	20	C
31521	Teacher Aides, Paraprofessional	11	8.00	8.00	6.70	9.40	420	490	10	0	10	B
31305	Teachers, Elementary School	5	15.90 *	15.90	12.10	19.30	380	400	10	10	20	C
31308	Teachers, Secondary School	5	16.10 *	16.10	12.30	19.50	240	270	10	10	20	C
49026	Telemarketers, Sales Related Workers	10	7.90 *	7.70	7.10	8.30	400	470	10	10	20	B
97102	Truck Drivers, Heavy	11	14.80	13.20	11.50	17.00	550	650	20	10	30	B
65008	Waiters & Waitresses	11	6.00 *	5.80	5.60	6.30	610	650	10	40	50	B

Unless noted with (*), wages are for Central, Uintah Basin, and Southeast Service Delivery Areas.

*Statewide wages.

Source: Department of Workforce Services, Workforce Information, January 2001.

1/ For definition of training codes, see pages 37 & 38.

APPENDICES

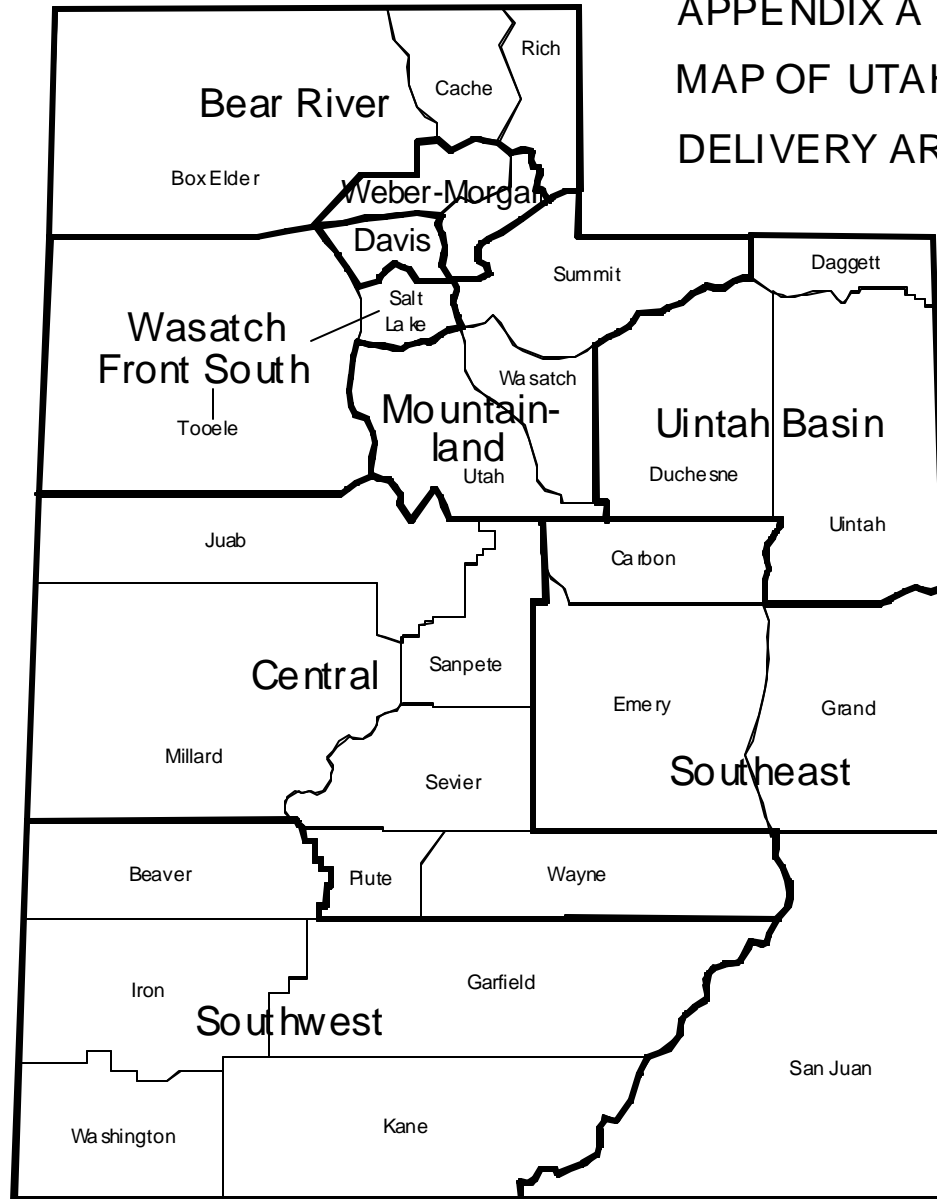
APPENDIX A MAP OF UTAH SERVICE DELIVERY AREAS

APPENDIX B UTAH EMPLOYMENT PROJECTIONS BY INDUSTRY SECTOR AND SERVICE DELIVERY AREA (SDA)

APPENDIX C OVERVIEW OF OCCUPATIONAL EMPLOYMENT PROJECTIONS METHODOLOGY

APPENDIX D OVERVIEW OF INDUSTRY EMPLOYMENT PROJECTIONS METHODOLOGY

APPENDIX A
MAP OF UTAH SERVICE
DELIVERY AREAS



APPENDIX B
UTAH EMPLOYMENT PROJECTIONS
BY INDUSTRY SECTOR AND SERVICE DELIVERY AREA
2000-2005

SIC Code	UPED #	Industry Sector	Statewide		Bear River		Weber/Morgan		Davis County		Wasatch Front South	
			2000	2005	2000	2005	2000	2005	2000	2005	2000	2005
01,02	1	AGRICULTURE	19,930	19,590	3,740	3,640	1,770	1,720	940	920	1,480	1,440
07,08,09	2	AG. SERVICES	5,570	6,870	270	340	430	530	620	770	2,620	3,150
12	3	COAL MINING	2,100	2,100	0	0	0	0	0	0	30	30
13	4	OIL & GAS EXTRACTION	2,070	1,620	0	0	10	10	70	50	210	150
10	5	METAL MINING	2,550	2,600	0	0	0	0	0	0	2,320	2,320
14	6	NON-METAL, NON-FUEL MINING	980	1,150	30	40	0	0	20	20	180	200
15	7	GEN. BLDG. CONSTRUCTION	17,910	15,580	1,000	930	1,840	1,440	1,750	1,360	8,170	7,030
16	8	HEAVY CONSTRUCTION	8,540	7,310	430	480	690	540	900	790	3,840	3,200
17	9	SPECIAL TRADES CONSTRUCTION	46,590	39,060	1,970	1,760	3,640	2,850	4,550	3,550	23,650	19,720
20	10	FOOD MANUFACTURING	13,080	13,830	3,050	3,280	1,010	1,070	1,050	1,110	4,370	4,500
22,23	11	TEXTILE & APPAREL MFG	4,200	4,160	140	140	160	160	220	220	2,230	2,170
27	12	PRINTING & PUBLISHING	12,670	13,840	1,210	1,330	620	680	840	930	6,330	6,790
28	13	CHEMICALS	7,010	7,560	320	340	850	880	510	530	2,210	2,260
24,25	14	LUMBER & FURNITURE	9,360	9,910	1,430	1,530	850	910	460	490	3,900	4,020
35	15	MACHINERY EXCL. ELECTRICAL	13,870	14,120	300	320	2,950	3,050	1,200	1,230	8,350	8,400
36	16	ELECTRICAL MACHINERY	6,950	6,920	850	850	830	840	120	120	4,350	4,270
37	17	TRANSPORTATION EQUIPMENT	17,790	18,530	7,430	7,850	2,940	3,070	1,590	1,650	4,190	4,240
29	18	PETROLEUM REFINING	1,240	1,220	0	0	0	0	630	630	310	290
33	19	PRIMARY METALS	6,860	6,860	380	380	950	950	180	180	1,820	1,820
34	20	FABRICATED METALS	9,030	9,170	580	600	880	890	1,640	1,680	3,020	2,970
32	21	STONE, CLAY & GLASS	5,340	5,420	240	250	540	550	220	230	2,260	2,250
21,26,30 31,38,39	22	MISC & OTHER MFG	26,590	28,060	4,160	4,650	1,830	1,970	2,310	2,480	15,730	16,410
40	23	RAILROAD TRANSPORTATION	2,070	2,160	20	20	430	460	20	20	1,220	1,250
42	24	MOTOR FREIGHT & WAREHOUSING	21,120	23,440	970	1,100	680	770	2,010	2,280	13,440	14,720
41	25	LOCAL & INTERURBAN TRANSPORT	1,600	1,790	80	90	250	290	10	10	900	990
45	26	AIR TRANSPORTATION	14,470	16,610	60	70	460	530	150	180	12,840	14,690
44,46	27	PIPELINE & WATER TRANSPORTATION	150	150	0	0	0	0	10	10	70	70
47	28	TRANSPORTATION SERVICES	3,180	3,730	220	260	90	110	330	390	2,060	2,380

Source: Governor's Office of Planning and Budget, Demographic and Economic Analysis, January 2000.

Note: Data may not sum due to independent rounding.

APPENDIX B
UTAH EMPLOYMENT PROJECTIONS
BY INDUSTRY SECTOR AND SERVICE DELIVERY AREA
2000-2005

SIC Code	UPED #	Industry Sector	Statewide		Bear River		Weber/Morgan		Davis County		Wasatch Front South	
			2000	2005	2000	2005	2000	2005	2000	2005	2000	2005
48	29	COMMUNICATIONS	10,210	10,600	170	180	260	280	180	200	8,550	8,810
49	30	ELEC., GAS & SANITARY SERVICES	7,810	8,250	120	130	350	370	180	190	4,910	5,210
50,51	31	WHOLESALE TRADE	51,000	54,550	1,440	1,580	2,570	2,790	2,640	2,930	34,680	36,720
58	32	EAT & DRINK RETAIL	65,800	70,680	3,390	3,690	5,750	6,200	5,850	6,330	30,790	32,320
52	33	BLDG MAT. & FARM EQUIPMENT	8,840	9,510	440	480	940	1,010	630	690	4,080	4,290
53	34	GENERAL MERCHANDISE	25,500	27,870	1,410	1,780	2,620	2,840	2,420	2,640	11,580	12,230
54	35	FOOD STORES	32,710	35,260	1,560	1,700	2,550	2,760	3,870	4,210	14,640	15,460
55	36	AUTO DLRS & SERVICE STATIONS	23,910	25,760	1,620	1,750	2,320	2,500	2,630	2,860	9,890	10,420
56	37	APPAREL	8,860	9,580	260	280	580	640	510	560	5,170	5,480
57	38	FURNITURE	11,200	12,040	510	560	1,000	1,080	750	820	6,170	6,510
59	39	MISC. RETAIL	25,680	27,810	1,160	1,270	2,530	2,750	2,020	2,220	13,580	14,480
60,61	40	BANKING	28,240	30,550	650	710	1,730	1,890	2,280	2,500	19,320	20,720
63,64	41	INSURANCE	15,070	16,570	340	390	770	850	660	750	11,510	12,560
62,67	42	SECURITIES & INVESTMENTS	4,430	4,750	30	30	100	110	70	90	3,890	4,150
65,66	43	REAL ESTATE	10,760	11,730	390	430	830	910	560	630	6,150	6,570
70	44	HOTELS & LODGING	18,190	21,870	480	580	630	770	440	520	8,970	10,500
72	45	PERSONAL SERVICES	9,310	10,610	400	470	940	1,090	830	960	5,170	5,790
73	46	MISC BUSINESS SERVICES	80,390	101,950	2,460	3,270	8,710	10,720	4,060	5,120	45,430	57,800
75	47	AUTO REPAIR	11,640	13,840	520	630	1,080	1,300	910	1,100	6,480	7,580
76	48	MISC REPAIR	3,690	4,510	160	200	180	220	320	400	1,960	2,360
78,79	49	AMUSE. & RECREATION	21,870	26,380	850	1,020	1,640	1,970	2,110	2,560	10,880	12,910
88	50	PRIVATE HOUSEHOLD	4,910	5,030	390	400	460	470	390	400	2,190	2,200
80	51	MED & HEALTH INCL HOSPITALS	69,110	85,160	3,710	4,610	7,400	9,180	5,170	6,470	35,400	42,840
82,833	52	PRIVATE EDUCATION	21,200	22,830	40	40	310	360	210	260	3,600	4,110
81	53	LEGAL SERVICES	5,860	6,850	130	150	280	320	70	90	4,640	5,400
83, EX 833	54	SOCIAL SERVICES	15,800	18,730	640	790	1,480	1,810	1,530	1,890	7,540	9,040
84	55	MUSEUMS, GALLERIES, ETC.	680	830	0	0	20	20	0	0	200	230

Source: Governor's Office of Planning and Budget, Demographic and Economic Analysis, January 2000.

Note: Data may not sum due to independent rounding.

APPENDIX B
UTAH EMPLOYMENT PROJECTIONS
BY INDUSTRY SECTOR AND SERVICE DELIVERY AREA
2000-2005

SIC Code	UPED #	Industry Sector	Statewide		Bear River		Weber/Morgan		Davis County		Wasatch Front South	
			2000	2005	2000	2005	2000	2005	2000	2005	2000	2005
86	56	MEMBERSHIP ORGANIZATIONS	15,050	18,360	420	520	830	1,030	530	670	10,160	12,270
87	57	ENGINEERING, ACCTG, ETC.	24,500	29,850	1,490	1,830	1,550	1,910	1,490	1,860	14,100	16,920
89	58	MISC PROF. SERVICES	330	410	30	40	30	30	10	10	190	230
	59	FED. PUBLIC ADMIN	13,570	14,070	190	200	5,050	5,460	940	1,020	4,890	4,630
	60	FEDERAL MILITARY	13,570	14,480	110	110	400	400	10,460	11,380	2,550	2,550
43	61	FEDERAL POST OFFICE	5,170	5,540	220	240	310	330	300	330	3,180	3,370
	62	STATE PUBLIC ADMIN	26,820	29,550	1,310	1,470	1,570	1,750	490	570	18,500	20,170
	63	STATE SCHOOL	31,190	34,850	5,210	5,880	3,340	3,770	270	300	15,520	17,030
	64	LOCAL PUBLIC ADMIN.	35,930	41,190	2,010	2,320	3,100	3,550	2,990	3,450	14,370	16,100
	65	LOCAL SCHOOL	58,270	64,170	3,800	4,210	5,260	5,790	6,760	7,470	22,150	23,840
	66	NON-FARM PROPRIETORS	253,970	298,440	15,210	18,040	20,660	24,320	26,660	31,610	110,750	127,220
	67	TOTAL	1,353,790	1,508,310	82,120	92,170	114,790	127,810	114,500	127,850	665,820	732,700

Source: Governor's Office of Planning and Budget, Demographic and Economic Analysis, January 2000.

Note: Data may not sum due to independent rounding.

APPENDIX B
UTAH EMPLOYMENT PROJECTIONS
BY INDUSTRY SECTOR AND SERVICE DELIVERY AREA
2000-2005

SIC Code	UPED #	Industry Sector	Mountainland		Central		Southwest		Uintah Basin		Southeast	
			2000	2005	2000	2005	2000	2005	2000	2005	2000	2005
01,02	1	AGRICULTURE	3,600	3,500	3,200	3,120	2,270	2,400	1,800	1,750	1,130	1,100
07,08,09	2	AG. SERVICES	990	1,240	100	120	480	640	40	50	30	40
12	3	COAL MINING	0	0	230	250	0	0	0	0	1,850	1,820
13	4	OIL & GAS EXTRACTION	80	60	0	0	10	10	1,330	780	350	560
10	5	METAL MINING	10	10	110	130	20	20	0	0	100	110
14	6	NON-METAL, NON-FUEL MINING	50	60	120	130	230	300	270	310	90	100
15	7	GEN. BLDG. CONSTRUCTION	3,150	2,520	350	270	1,340	1,670	140	90	180	270
16	8	HEAVY CONSTRUCTION	1,360	1,040	180	260	460	610	180	160	490	230
17	9	SPECIAL TRADES CONSTRUCTION	8,140	6,700	570	540	3,150	3,140	350	310	580	490
20	10	FOOD MANUFACTURING	2,390	2,560	970	1,030	160	190	30	30	60	60
22,23	11	TEXTILE & APPAREL MFG	630	630	170	170	380	410	10	10	260	260
27	12	PRINTING & PUBLISHING	3,130	3,470	80	80	300	360	70	80	110	110
28	13	CHEMICALS	2,640	2,800	20	20	420	680	0	0	50	50
24,25	14	LUMBER & FURNITURE	1,310	1,400	110	110	1,060	1,200	110	120	130	140
35	15	MACHINERY EXCL. ELECTRICAL	770	810	10	10	150	160	90	90	50	50
36	16	ELECTRICAL MACHINERY	550	570	0	0	260	280	0	0	0	0
37	17	TRANSPORTATION EQUIPMENT	780	840	140	140	710	750	0	0	0	0
29	18	PETROLEUM REFINING	20	20	160	150	0	0	50	50	70	80
33	19	PRIMARY METALS	3,510	3,510	30	30	0	0	0	0	0	0
34	20	FABRICATED METALS	2,350	2,420	100	110	390	430	0	0	70	70
32	21	STONE, CLAY & GLASS	1,360	1,390	320	330	290	310	20	20	80	80
21,26,30 31,38,39	22	MISC & OTHER MFG	1,190	1,280	360	380	980	860	20	30	10	10
40	23	RAILROAD TRANSPORTATION	150	160	20	20	120	130	0	0	100	100
42	24	MOTOR FREIGHT & WAREHOUSING	1,050	1,180	890	1,000	1,160	1,390	590	670	310	350
41	25	LOCAL & INTERURBAN TRANSPORT	150	170	0	0	70	90	50	60	90	100
45	26	AIR TRANSPORTATION	420	490	30	40	390	480	20	30	90	100
44,46	27	PIPELINE & WATER TRANSPORTATION	0	0	10	10	40	40	20	20	10	10
47	28	TRANSPORTATION SERVICES	380	460	0	10	60	80	10	10	50	50

Source: Governor's Office of Planning and Budget, Demographic and Economic Analysis, January 2000.

Note: Data may not sum due to independent rounding.

APPENDIX B
UTAH EMPLOYMENT PROJECTIONS
BY INDUSTRY SECTOR AND SERVICE DELIVERY AREA
2000-2005

SIC Code	UPED #	Industry Sector	Mountainland		Central		Southwest		Uintah Basin		Southeast	
			2000	2005	2000	2005	2000	2005	2000	2005	2000	2005
48	29	COMMUNICATIONS	340	360	90	100	380	430	120	120	130	130
49	30	ELEC., GAS & SANITARY SERVICES	440	490	570	570	240	280	290	290	730	730
50,51	31	WHOLESALE TRADE	6,550	7,090	540	580	1,390	1,610	490	530	690	730
58	32	EAT & DRINK RETAIL	10,990	12,080	1,770	1,920	4,770	5,490	810	870	1,670	1,770
52	33	BLDG MAT. & FARM EQUIPMENT	1,470	1,610	210	230	790	900	140	150	140	150
53	34	GENERAL MERCHANDISE	4,650	5,100	220	240	1,820	2,210	390	420	390	410
54	35	FOOD STORES	5,460	6,000	1,160	1,250	2,000	2,310	560	600	910	970
55	36	AUTO DLRS & SERVICE STATIONS	3,370	3,700	870	940	2,010	2,310	550	590	650	690
56	37	APPAREL	1,590	1,760	50	50	590	690	50	60	60	70
57	38	FURNITURE	1,860	2,040	160	170	560	650	90	100	100	100
59	39	MISC. RETAIL	4,070	4,500	330	360	1,260	1,460	200	210	530	560
60,61	40	BANKING	2,770	3,050	280	300	870	1,010	130	140	210	230
63,64	41	INSURANCE	1,070	1,200	110	130	430	510	80	90	90	100
62,67	42	SECURITIES & INVESTMENTS	290	320	0	0	50	60	0	0	0	0
65,66	43	REAL ESTATE	1,990	2,240	40	50	630	740	100	110	70	70
70	44	HOTELS & LODGING	2,500	3,100	560	670	3,070	3,910	400	480	1,140	1,350
72	45	PERSONAL SERVICES	1,410	1,640	70	80	350	430	60	60	80	90
73	46	MISC BUSINESS SERVICES	16,840	21,080	330	410	1,910	2,740	270	330	380	490
75	47	AUTO REPAIR	1,660	2,010	160	200	530	670	130	160	170	200
76	48	MISC REPAIR	340	420	70	80	130	170	80	100	470	570
78,79	49	AMUSE. & RECREATION	4,270	5,280	120	140	1,360	1,740	170	210	480	560
88	50	PRIVATE HOUSEHOLD	1,110	1,160	50	50	220	240	70	70	50	50
80	51	MED & HEALTH INCL HOSPITALS	10,550	13,240	1,310	1,620	3,780	4,990	550	670	1,260	1,530
82,833	52	PRIVATE EDUCATION	16,590	17,520	200	230	100	120	90	100	80	90
81	53	LEGAL SERVICES	450	500	30	40	210	270	40	50	30	30
83, EX 833	54	SOCIAL SERVICES	2,460	3,060	620	760	1,140	900	180	220	230	280
84	55	MUSEUMS, GALLERIES, ETC.	470	580	0	0	0	0	0	0	0	0
86	56	MEMBERSHIP ORGANIZATIONS	1,290	1,610	260	320	530	700	700	860	330	390
87	57	ENGINEERING, ACCTG, ETC.	4,180	5,190	410	510	770	1,010	150	190	360	430

Source: Governor's Office of Planning and Budget, Demographic and Economic Analysis, January 2000.

Note: Data may not sum due to independent rounding.

APPENDIX B
UTAH EMPLOYMENT PROJECTIONS
BY INDUSTRY SECTOR AND SERVICE DELIVERY AREA
2000-2005

SIC Code	UPED #	Industry Sector	Mountainland		Central		Southwest		Uintah Basin		Southeast	
			2000	2005	2000	2005	2000	2005	2000	2005	2000	2005
89	58	MISC PROF. SERVICES	50	60	0	0	20	30	0	0	10	10
	59	FED. PUBLIC ADMIN	430	460	310	340	790	910	460	490	510	550
	60	FEDERAL MILITARY	40	40	10	10	10	10	0	0	0	0
43	61	FEDERAL POST OFFICE	650	710	120	130	220	250	80	80	90	100
	62	STATE PUBLIC ADMIN	2,470	2,800	760	850	770	910	310	340	640	700
	63	STATE SCHOOL	3,060	3,460	850	950	2,330	2,770	0	0	610	680
	64	LOCAL PUBLIC ADMIN.	5,820	6,800	1,660	1,900	2,960	3,630	1,340	1,530	1,690	1,910
	65	LOCAL SCHOOL	10,360	11,810	2,600	2,830	3,540	4,200	1,620	1,710	2,190	2,310
	66	NON-FARM PROPRIETORS	44,700	53,460	7,040	8,320	18,270	23,010	5,000	5,860	5,690	6,600
	67	TOTAL	218,700	246,800	32,180	35,750	75,640	90,840	20,900	22,430	29,150	31,960

Source: Governor's Office of Planning and Budget, Demographic and Economic Analysis, January 2000.

Note: Data may not sum due to independent rounding.

APPENDIX C

OVERVIEW OF OCCUPATIONAL EMPLOYMENT PROJECTIONS METHODOLOGY

Producing occupational employment projections for Utah and its nine sub-stage areas is a three-phase process. This process starts with a survey which collects occupational employment data from employers and generates occupational employment estimates by industry (Phase I). The occupational employment estimates are then combined to create a very large database, the Industry/Occupation Matrix (Phase II), which defines the current occupational composition of employment in the labor market. The final step (Phase III) is the production of occupational employment projections for 2000 and 2005, and the generation of estimates of the number of annual average job openings over the five-year projections period. Below is a brief description of each of the three phases that result in the estimates of labor demand shown in the **Utah Job Outlook**.

Phase I - Occupational Employment Statistics (OES) Survey

The OES Survey forms the backbone of labor demand information by occupation. This U. S. Department of Labor and Utah Department of Workforce Services Federal/State cooperative statistical program estimates the occupational composition of the employed. It does so via a sample survey of employers in Utah industries. A sample of employers is selected and surveyed from all industries in Utah for use in estimating the number of employees by occupation. To update the occupational

database, a sample of firms from the industries in Utah are surveyed (a representative sample of employers is selected for the survey based on employment size and number of firms in the industry) each year. From the data collected for each industry, estimates of employment by occupation are produced using a statistically valid estimating methodology mandated by the U.S. Department of Labor, Bureau of Labor Statistics. The OES Survey produces profiles of the occupational content of employment for surveyed industries (the number of employees by occupation and percent distribution for each industry). The Workforce Information Division of the Utah Department of Workforce Services surveys employers in over 300 specific industries using a classification system that defines some 700 occupations. Statewide estimates of occupational employment and occupational profiles (percent distributions) of specific industries are available on request.

Phase II - Industry/Occupation Matrix Generation

This phase of the process of producing occupational projections uses the occupational employment estimates by specific industries produced in Phase I and creates an industry/occupation matrix of all industries and occupations in the State or sub-stage area (service delivery area). Phase II is an interim step

which enables the most current OES Survey staffing patterns to be applied to industry employment totals. This process creates a comprehensive database from which projections of occupational employment, growth, and job openings (growth and replacement) in Phase III are derived. The occupational distributions of 300 specific industries are input into this I/O (Industry/Occupation) matrix containing over 200,000 data cells (300 industries times 700 occupations). This database includes staffing patterns for wage and salaried employment, agriculture, and self-employed. Briefly stated, this matrix is created by multiplying the total current (base year) employment for each of the 300 industries by the percent of total employment made up by each of the occupations in the industry to arrive at an estimate of employment by occupation within the industry. The base year (2000) estimates of employment are created in this manner.

Phase III - Occupational Projections

Phase III projects employment and average annual job openings by occupation for the five-year period. Two major functions take place. First is the forecasting of industry employment totals for the projected year. This projections period is 2000 (base year) and 2005 (out year). Second is the application of the base year occupational employment composition (occupational percent distributions) for each of some 300 industries to the projected year industry totals and the generation of the average annual job opening estimates over the five-year period.

The first step, forecasting what the number of jobs in the base and projected year, entails the use of an

econometric forecasting model of the Utah State Office of Planning and Budget. This model is called UPED (Utah Process Economic & Demographic Impact Simulation Model) and was developed by the Governor's Office of Planning and Budget (see Appendix E).

Using a number of economic and demographic assumptions concerning the direction and magnitude of growth for the State and sub-stage areas, the model creates industry employment estimates, e.g. the total number of jobs in each specific industry. The UPED model output is the critical input in producing occupational projections because it sets the level of total employment by industry (Statewide and each of the sub-stage areas) for both the base and projected year. The LMI and Research Division then "occupationalizes" these estimates by applying the occupational profiles in the I/O Matrix to the base and projected year industry totals. This is done for each specific industry in the matrix. When completed, the occupational employment data for each of the cells in the I/O Matrix is added (rolled up) across all the 300 specific industries to arrive at a base and projected year number of jobs by occupation. These two data elements appear in the Labor Demand and Supply Tables under the labor demand columns (currently 2000 and 2005). A similar process is used to produce the sub-stage projections. The only difference is that for the sub-stage areas, the level of industry detail is less than for the State. At the sub-stage level only 66 industry sectors are used to represent the total market as compared to the Statewide set where about 300 industries are used.

The final step in the projections phase is to estimate the number of annual average job openings projected to occur during the five-year period. The annual average job openings projected for an occupation are made up of two components. First, estimates are made of the

annual average job openings due to new jobs expected in the economy during the period.

New (growth) job openings are derived simply by subtracting the base year employment for the specific occupation from the projected year employment (to calculate total new jobs over the five years). This number is then divided by five (the number of years in the projections period). Replacement annual average job openings are the second component of job openings. These openings, which typically exceed the number of growth job openings for an occupation, represent the net number or movement of workers from the occupation. Stated another way, net separation "replacement"

openings reflect the opportunity to refill jobs that have been left by workers who have changed jobs or left the labor force. The two sources of job openings—growth and replacement—are combined to show the total annual average job openings for each occupation, i.e. total labor demand.

This is a summary of the method used by the Workforce Information Division of Workforce Services to create the occupational labor demand estimates published in the "Labor Demand Tables" in the Utah Job Outlook. Any questions should be addressed to the Workforce Information Division of the Utah Department of Workforce Services.

APPENDIX D

OVERVIEW OF INDUSTRY EMPLOYMENT PROJECTIONS METHODOLOGY

**by Ross Reeve, Research Consultant
Demographic and Economic Analysis Section
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The industry employment projections used to develop occupational demand projections to the year 2005 were developed using the Utah Process Economic and Demographic Impact Model (UPED) at the multi-county district (MCD) level and the Utah County Allocation of Population and Employment Model (UCAPE) to allocate MCD population and employment to counties in the Wasatch Front MCD. County level projections were then aggregated to service delivery areas (SDAs). These models, along with the County Age & Sex Allocation Model (CASA), are the models used by the Utah Governor's Office of Planning and Budget to project population and employment growth for Utah, its counties and districts.

Assumptions concerning specific anticipated future events of a basic nature include:

1. The 2002 Winter Olympic Games estimates of direct and indirect employment impacts.
2. A modified Scenario One development of Circle Four Farms in Beaver and Iron Counties.
3. Independent projections by the Office of Energy and Resource Planning of the Department of Natural Resources of production and employment for Coal Mining, Oil and Natural Gas Extraction, and Petroleum Refining.

4. Specific assumptions concerning Federal Defense, Primary Metals, Metal Mining, Private Education as well as numerous specific events and developments across the State.

A description of the models follows:

UPED

UPED integrates a cohort-component demographic model with an economic base employment model. It generates long term demographic (population) and economic (employment) projections. The demographic component of UPED produces projections of births by sex of child and age of mother, and deaths, non-employment related in-migration and non-employment related out-migration (college students, LDS missionaries, and retirement age migration) by single year of age and sex. The economic base component produces projections of basic (export), residentiary (population dependent), and total employment by sixty-six industry sectors (essentially two-digit SIC industries), as well as employment related net in-migration by sex and single year of age.

The organizing principle is that of a labor market with excess supplies of labor (the supply of labor exceeding the demand for labor above an equilibrium unemployment rate) producing net out-migration of labor force and related persons and with excess

demand for labor (the demand for labor exceeding the supply of labor below an equilibrium unemployment rate) generating net in-migration of labor force and related persons. The demand for labor (supply of jobs) is derived from firms and other organizations producing goods and services for export from the area (either directly or indirectly) and from suppliers of goods and services to the local area's population. Basic or export demand is assumed to be the principle determinant of the level and rate of growth of economic activity and population within the area.

Residential or non-basic demand is a function of the size and composition of the population, trends in national per capita consumption to employment patterns, and relative (relative to the U.S.) per capita purchasing patterns. The supply of labor (demand for jobs) is a function of the size and composition of the population, their labor force participation rates, their multiple job holding rates and net-commutation between areas. The dual role of the population as consumers of goods and services, and hence, contributing to the demand for labor, and as suppliers of labor is recognized in the model. Employment related net in- or out-migration serves as the mechanism for achieving equilibrium in the labor market.

UCAPE

UCAPE allocates the UPED regional level projections of total population and employment by sixty-six industry sectors to sub-regional areas. This model is currently implemented at the county level. Historical series of total population and employment by industry for each county serve as the basis for the parameter and probability

estimates used in the model. They also define the initial conditions upon which the model operates. Each industry is potentially associated (i.e., not fully implemented) with a locational hypothesis or rule by which changes in employment in that industry are allocated to sub-regional areas. These may be resource oriented, market oriented, central place, or other hypotheses, or they may be rules incorporating user knowledge and judgement.

For industries having no associated hypothesis, allocation of employment to sub-areas is accomplished jointly using a Bayesian maximum likelihood estimating procedure. The first step here is an ordinary least squares (OLS) extrapolation of this category of employment to sub-areas which is constrained to the total regional unallocated employment. Secondly, industry specific allocations are produced from a) the unallocated regional employment by industry (from the UPED model), b) the unallocated employment by sub-area (from the above OLS procedure), both of which are reduced to marginal probability distributions, and c) a prior joint probability distribution of employment with dimensions industry and county (from the input historical series of employment by industry and county).

Total population is distributed to sub-areas on the basis of the employment allocations and a set of sub-area specific population to employment relative (relative to the region) weights. These weights preserve relative differences between counties in population composition, labor force participation, and commutations patterns.